BRIGHAM YOUNG UNIVERSITY



Annual Catalog Issue

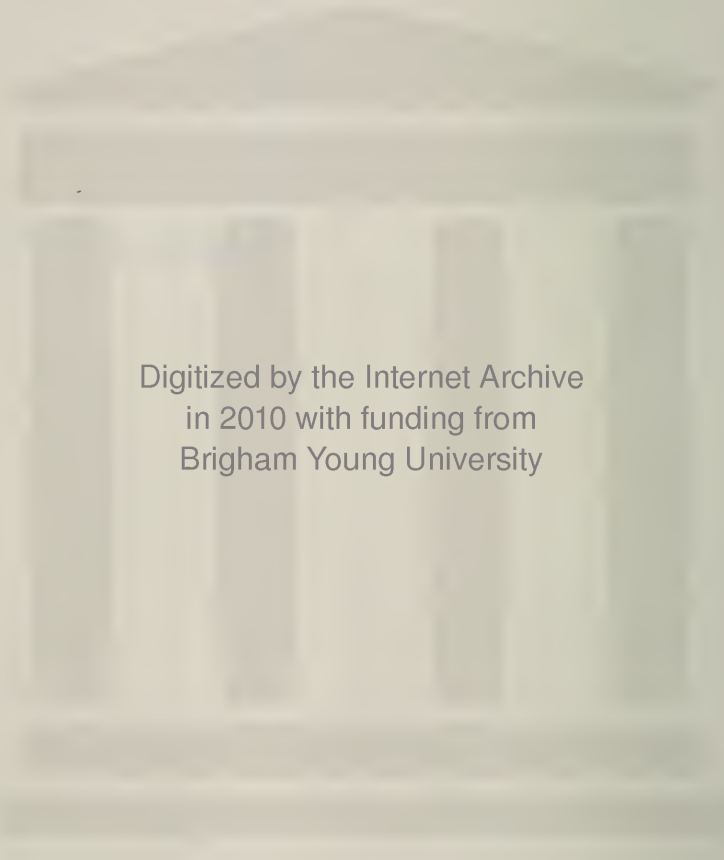
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Brigham Young University Quarterly

Annual Catalogue Issue
1948 - 49

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Published by
Brigham Young University
Provo, Utah

Entered June 14, 1905, at Provo, Utah, as second class matter under act of Congress of July 10, 1904

Accepted for mailing at special rate of postage provided for in Section 1703, Act of October 3, 1917. Authorized July 30, 1918

1948

JANUARY

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MARCH

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JUNE

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JULY

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DECEMBER

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Calendar of Events

AUTUMN QUARTER

September 20, 9:00 A.M.—First Faculty Meeting.
September 24, 25—Personnel tests and orientation for all new freshmen and new sophomores.
September 27, 28—Registration for all students.
September 29—Class instruction begins.
October 1—Last day for registering without credit penalty.
October 15—Last day for entering autumn quarter classes.
October 16—Founder's Day.
November 25, 26—Thanksgiving recess.
December 15, 16, 17—Examination period.
December 17—Autumn quarter closes.
December 18—Limited pre-registration.

WINTER QUARTER

January 3, 4—Registration for all students.
January 5—Class instruction begins.
January 7—Last day for registering without credit penalty.
January 21—Last day for entering winter quarter classes.
February 11—Last day for withdrawal from classes.
March 16, 17, 18—Examination period.
March 18—Winter quarter closes.

SPRING QUARTER

March 21, 22—Registration for all students.
March 23—Class instruction begins.
March 25—Last day for registering without credit penalty.
April 8—Last day for entering spring quarter classes.
April 29—Last day for withdrawal from classes.
June 1, 2, 3—Examination period.
June 4—Senior Day.
June 5—Baccaulaureate Services.
June 6—Alumni Day.
June 7—Commencement Exercises.
June 13—Summer Quarter Begins.

GENERAL ADMINISTRATIVE OFFICERS

THE BOARD OF TRUSTEES

OF

THE BRIGHAM YOUNG UNIVERSITY

GEORGE ALBERT SMITH.....President

J. REUBEN CLARK, JR.....First Vice-President

DAVID O. McKAY.....Second Vice-President

JOSEPH FIELDING SMITH
STEPHEN L. RICHARDS
JOHN A. WIDTSOE
JOSEPH F. MERRILL
FRANKLIN L. WEST
ALBERT E. BOWEN
ADAM S. BENNION

KIEFER B. SAULS.....Secretary-Treasurer

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JOSEPH FIELDING SMITH

STEPHEN L. RICHARDS

JOHN A. WIDTSOE

JOSEPH F. MERRILL

ALBERT E. BOWEN

HOWARD S. McDONALD

PRESIDENT OF THE BRIGHAM YOUNG UNIVERSITY

HOWARD S. McDONALD

Faculty Administrative Officers

President.....Howard S. McDonald
Secretary to the President.....John Tootle

Secretary-Treasurer.....Keifer B. Sauls
Associate in Treasurer's Office.....Carma Ballif

Registrar.....John E. Hayes
Associate Registrar.....Dean A. Peterson
Dean of Students.....Wesley P. Lloyd
Summer School:.....Asael C. Lambert, Dean
Extension Division:.....Harold Glen Clark, Director
Applied Science, College of:.....Thomas L. Martin, Dean
Arts and Sciences, College of:.....Carl F. Eyring, Dean
Commerce, College of:.....Herald R. Clark, Dean
Education, College of:.....Reuben D. Law, Dean
Fine Arts, College of:.....Gerrit deJong, Jr., Dean
Graduate School:.....Christen Jensen, Dean
Religion, Division of:.....

Director of Religious Instruction:.....Sidney B. Sperry
Director of Religious Activities:.....Hugh B. Brown

Accounting and Business Administration:.....
.....Harrison Val Hoyt, Chairman
Agricultural Economics:.....A. Smith Pond, Chairman
Agronomy:.....Thomas L. Martin, Chairman
Animal Husbandry:.....Grant Richards, Chairman
Archaeology:.....M. Wells Jakeman, Chairman
Art:.....Bent F. Larsen, Chairman
Bacteriology:.....Thomas L. Martin, Chairman
Bible and Modern Scripture:.....Sidney B. Sperry, Chairman
Botany:.....Bertrand F. Harrison, Chairman
Chemistry:.....Joseph K. Nicholes, Chairman
Church Organization and Administration:.....
.....Wesley P. Lloyd, Chairman
Director of Libraries:.....Asael C. Lambert
Economics:.....Elmer Miller, Chairman
Educational Administration:.....Reuben D. Law, Chairman
Elementary Education:.....Le Roy Bishop, Chairman
Elementary Training School:.....Hermese Peterson, Principal
English:.....Parley A. Christensen, Chairman

Finance and Banking:.....Herald R. Clark, Chairman
Geology and Geography:.....George H. Hansen, Chairman
Health, Physical Education, and Recreation:.....
.....Charles J. Hart, Chairman
History:.....Christen Jensen, Chairman
Home Economics:.....Effie Warnick, Chairman
Horticulture and Landscape Architecture:.....
.....Robert H. Daines, Chairman
Journalism:.....Oliver R. Smith, Chairman
Marketing:.....Weldon J. Taylor, Chairman
Mathematics:.....Carl F. Eyring, Chairman
Mechanic Arts:.....William H. Snell, Chairman
Zoology and Entomology:.....Vasco M. Tanner, Chairman
Modern and Classical Languages:.....
.....Benjamin F. Cummings, Chairman
Music:.....John R. Halliday, Chairman
Philosophy of Education and Guidance:.....
.....Wesley P. Lloyd, Chairman
Physics:.....Carl F. Eyring, Chairman
Political Science:.....Christen Jensen, Chairman
Psychology:.....M. Wilford Poulson, Chairman
Research Division:.....Christen Jensen, Acting Director
Secondary Education:.....Golden L. Woolfe, Chairman
Secondary Training School:.....A. John Clarke, Principal
Secretarial Practice:.....Evan M. Croft, Chairman
Sociology:.....Ariel Ballif, Chairman
Speech:.....T. Earl Pardoe, Chairman
Theology and Religious Philosophy:.....
.....Sidney B. Sperry, Acting Chairman
University Physician:.....Seth E. Smoot
Women, Counselor for.....Lillian C. Booth

DEANS' COUNCIL

The Deans' Council consists of the President, all deans, and the directors of the divisions.

UNIVERSITY COUNCIL

The University Council consists of the President and all members of the faculty with the rank of professor, associate professor, or assistant professor.

THE COUNCIL OF THE GRADUATE SCHOOL

The Council of the Graduate School consists of the President of the University and the Dean of the Graduate School who are ex-officio members, and nine other faculty members who are appointed by the President.

STANDING COMMITTEES

(The President is ex-officio member of all standing committees.)

Aiding Graduates to Obtain Employment: E. M. Jensen, H. V. Hoyt, the Deans.

Alumni Directory: F. R. Haymore, Lucile Spencer.

Catalogue and Other Quarterlies: K. E. Young, J. E. Hayes, K. B. Sauls, H. W. Lee, C. F. Larson, Jean Anne Waterstradt.

Eligibility: M. Marshall, J. H. Wing, J. E. Hayes.

Graduation: E. M. Croft, G. L. Woolf, R. B. Farnsworth.

History of the University: N. I. Butt, Elsie C. Carroll.

Lectures and Musicals: H. R. Clark, J. C. Swensen.

Library: A. C. Lambert, M. W. Poulson, S. B. Sperry, A. S. Ballif, R. A. Britsch.

Radio: T. E. Pardoe, K. B. Sauls, H. G. Clark, O. Smith, W. B. Hales, J. Halliday, Florence J. Madsen, O. N. Geertsen, L. Perry, J. R. Clark III.

Schedule of Events: L. M. Perry, and Office of the President.

Schedule of Classes: W. B. Hales, M. Miller.

Special Services: W. P. Lloyd, A. S. Ballif, Lillian C. Booth, V. M. Tanner, J. R. Clark III, J. F. Jones, G. H. Hansen, J. E. Hayes, D. A. Peterson, A. K. Romney, K. B. Sauls, J. R. Clark, M. H. Clark, and Student Body President.

Assisting in the work of the Special Services of the University are the following committees of which the Dean of Students is ex-officio member:

Athletics: A. S. Ballif, P. A. Christensen, C. J. Hart, K. B. Sauls, E. R. Kimball, F. Millet, F. R. Haymore, C. L. Jensen, and Student Body President.

Counseling Service: A. K. Romney, M. K. Allen, M. H. Clark, and special faculty personnel.

Student Health: V. M. Tanner, S. Smoot, C. J. Hart, J. F. Jones, A. K. Romney, Lillian C. Booth.

Women's Affairs: Lillian C. Booth, Elsie C. Carroll, Orea B. Tanner, Leona Holbrook, Elizabeth Hill, Catherine Romney, Naoma Rich.

The Faculty

Emeritus List

William H. Boyle.....Professor Emeritus of Education
Charles E. Maw.....Professor Emeritus of Chemistry
Amos N. Merrill.....Professor Emeritus of Secondary Education
John C. Swensen.....Professor Emeritus of Sociology
Ella Larsen Brown.....Librarian Emeritus
Anna Ollorton.....Librarian Emeritus

Active List

Howard S. McDonald.....President (1945)
B. S., Utah State Agricultural College, 1921; M. A., University of California, 1925.

Ray S. Alleman.....Assistant Professor of Physics (1946)
A. B., M. A., Brigham Young University, 1933, 1934; Ph. D. Johns Hopkins University, 1939.

Mark K. Allen.....Associate Professor of Psychology (1946)
A. B., Brigham Young University, 1926; M. A., Stanford University, 1934.

Dean A. Anderson*.....Associate Professor of Agronomy and Bacteriology (1941)
B. S., Brigham Young University, 1929; M. S., Ph. D., Iowa State College, 1930, 1932.

V. Fred Anderson.....Instructor in Physical Education (1947)
B. S., M. E., University of Minnesota, 1947.

Marcia Anderson.....Instructor in English (1946)
A. B., Brigham Young University, 1943; M. A., State University of Iowa, 1947.

J. Roman Andrus.....Assistant Professor of Art (1943)
B. S., M. S., Brigham Young University, 1942, 1943.

Afton Hawker Bagshaw.....Clerk of Extension Division (1940)
B. S., Brigham Young University, 1940.

Ariel S. Ballif.....Professor of Sociology (1938)
B. S., Brigham Young University, 1925; M. A., Ph. D., University of Southern California, 1937, 1945.

Carma Ballif.....Associate in Treasurer's Office
B. S., Brigham Young University, 1927.

*On Leave

Irene S. Barlow.....Associate Professor of Home Economics (1934)
B. S., Utah State Agricultural College, 1919; M. S., University of Chicago, 1934.

Edith Bartholomew Bauer.....
.....Instructor in Secondary Education (1945)
A. B., M. A., Brigham Young University 1930, 1946.

D. Elden Beck.....Associate Professor of Zoology and Entomology (1938)
A. B., M. A., Brigham Young University, 1929, 1930; Ph. D., Iowa State College, 1933.

Mary Beth Benson.....Instructor in Physical Education (1947)
B. S., University of Utah, 1946.

William E. Berrett.....Associate Professor of Religious Education (1948)

May Billings.....Assistant Professor of Home Economics (1932)
B. S., Brigham Young University, 1933.

Verla L. Birrell.....Assistant Professor of Art (1937)
B.S., University of Utah, 1928; M. A., Clarmont College, 1942.

LeRoy Bishop.....Professor of Elementary Education (1946)
B. S., Utah State Agricultural College, 1935; M. S., University of Southern California, 1941; Ed. D., Colorado State College of Education, 1947.

Harold J. Bissell.....Associate Professor of Geology (1938)
B. S. Brigham Young University, 1934; M. S., University of Iowa, 1936.

Lillian C. Booth.....Counsellor for Women (1938)
B. S., Brigham Young University, 1940.

Clarence S. Boyle.....Professor of Accounting and Business Administration (1927)
B. S., Brigham Young University, 1924; M. S., Ed. D., New York University, 1926, 1941.

William H. Boyle.....Professor Emeritus of Education (1910)
A. B., M. A., Brigham Young University, 1913, 1923.

Reed H. Bradford.....Professor of Sociology (1946)
A. B., Brigham Young University, 1937; M. A., Ph. D., Harvard University, 1946.

Robert Brailsford.....Instructor in Secondary Education (1947)
B. S., M. S., Brigham Young University, 1943, 1947.

Ralph A. Britsch.....Assistant Professor of English (1938)
A. B. Brigham Young University, 1933.

H. Smith Broadbent.....Assistant Professor of Chemistry (1946)
B. S., Brigham Young University, 1942; Ph. D., Iowa State College, 1946.

Ella Larsen Brown.....Librarian Emeritus (1902)

Hugh B. Brown.....Professor of Political Science and of Religion (1946)

Loren C. Bryner.....Associate Professor of Chemistry (1935)
B. S., M. S., Brigham Young University, 1928, 1930; Ph. D., Iowa State College, 1934.

Gustave Buggert.....Instructor in Music (1930)

Kenneth C. Bullock*.....Assistant Professor of Geology (1943)
B. S., M. A., Brigham Young University, 1940, 1942.

Olive Kimball Burmingham.....Instructor in English (1947)
B. A., University of Arizona, 1932; M. A., Brigham Young University, 1934.

Newbern I. Butt.....Library and Research Associate (1922)
B. S., Utah State Agricultural College, 1915; M. S., Brigham Young University, 1939.

Julia Alleman Caine.....Instructor in Secondary Education (1940)
B. S., Brigham Young University, 1925.

Dorothy Nelson Candland.....Instructor in Elementary Education (1947)
B. S., Brigham Young University, 1940.

Ray R. Canning.....Instructor in Religion (1947)
B. S., Utah State Agricultural College, 1942.

William C. Carr.....Assistant Professor of History & Political Science (1946)
A. B., Brigham Young University, 1934.

Elsie C. Carroll.....Associate Professor of English (1926)
B. S., M. A., Brigham Young University, 1926, 1928.

Thomas E. Cheney.....Assistant Professor of English (1945)
B. S., Utah State Agricultural College, 1930; M. A., University of Idaho, 1936.

Herbert K. Christensen..Assistant Professor of Secondary Education (1945)
B. S., M. S., Brigham Young University, 1945, 1948.

Parley A. Christensen.....Professor of English (1917)
B. S., Utah State Agricultural College, 1914; M. A., Ph. D., Stanford University, 1925, 1927.

A. John Clarke.....Associate Professor of Secondary Education
B. S., M. S., Brigham Young University, 1938, 1941.

Harold Glen Clark.....Professor of Education (1946)
Executive Secretary of Alumni Association; Director of Extension Division.

*On Leave

B. S., Brigham Young University, 1928; M. S., University of Southern California, 1934; Ed. D., George Washington University, 1942.

Herald R. Clark.....Professor of Finance and Banking
Dean, College of Commerce, (1917)
A. B., Brigham Young University, 1918; M. B. A., University of Washington, 1924.

J. Reuben Clark, III.....Assistant Professor of French (1941)
A. B., University of Utah, 1934.

James R. Clark.....Assistant in Library (1938)
A. B., M. A., Brigham Young University, 1936, 1944.

Monroe H. Clark.....Associate Professor of Philosophy of Education and Guidance (1945)
Chairman of Attendance and Scholarship Committee (1947)
A. B., Columbia University, M. A., Brigham Young University, 1927.

Reola Clark.....Instructor in English (1947)
A. B., University of Utah, 1947.

Morris M. Clinger.....Assistant Professor of Speech (1936)
A. B., M. A., Brigham Young University, 1932, 1946.

Lars G. Crandall.....Assistant Purchasing Agent
Instructor in Secretarial Practice (1944)
B. S., M. S., Brigham Young University, 1944, 1945.

Evan M. Croft.....Assistant Professor of Secreterial Practice (1936)
B. S., Brigham Young University, 1929; M. S., University of Southern California, 1940.

David M. Crowton.....Instructor in Physical Education and Assistant Athletic Coach (1937)
B. S., Brigham Young University, 1938.

Lloyd L. Cullimore.....Associate in Student Health Department
B. S., University of Utah, 1922; M. D., George Washington Medical College, 1925.

Benjamin F. Cummings.....Professor of Modern and Classical Language (1920)
A. B., University of Utah, 1913.

Robert H. Daines.....Professor of Horticulture (1948)
B. S., M. S., Utah State Agricultural College, 1929, 1931; Ph. D., Rutgers University, 1934.

Gerrit de Jong, Jr......Professor of Modern Languages
Dean, College of Fine Arts (1925)
A. B., M. A., University of Utah, 1920, 1925; Ph. D., Stanford University, 1934.

Fred W. Dixon.....Assistant Professor of Physical Education and Athletics (1928)
B. S., M. S., Brigham Young University, 1926, 1939.

Owen G. Dixon.....Instructor in Secondary Education (1947)
B. S., Brigham Young University, 1946.

Norman Dunn.....Instructor in English (1946)
M. R. S. T., Birmingham, England, 1922.

Don L. Earl.....Assistant Professor of Music (1946)
A. B., M. A., Brigham Young University, 1940, 1947.

Carl F. Eyring.....Professor of Physics and Mathematics; Dean, College of Arts and Sciences (1910)
A. B., Brigham Young University, 1912; M. A., University of Wisconsin, 1915; Ph. D., California Institute of Technology, 1924.

Raymond B. Farnsworth.....Associate Professor of Agronomy and Animal Husbandry (1946)
B. S., Brigham Young University, 1937; M. S., Massachusetts State College, 1938; Ph. D., Ohio State University, 1941.

Flora D. Fisher.....Instructor in Elementary Education (1933)
B. S., Brigham Young University, 1936.

LaVell C. Gamett.....Instructor in Industrial Arts (1947)
B. S., Brigham Young University, 1935.

O. Norman Geertsen.....Instructor in Physics and Sound Technician (1941)
B. S., Brigham Young University, 1930.

Mary Deane Gilbert.....Instructor in Secondary Education (1947)
B. S., Brigham Young University, 1941.

Preston R. Gledhill.....Assistant Professor of Speech (1947)
A. B., Brigham Young University, 1939; M. A., Louisiana State University, 1940.

James Rex Goates.....Assistant Professor of Chemistry (1947)
B. S., Brigham Young University, 1942; Ph. D., University of Wisconsin, 1947.

Stewart L. Grow.....Instructor in History and Political Science (1947)
B. S., Brigham Young University, 1935.

Elnora B. Gwynn.....Dining Hall Manager (1946)
B. S., Brigham Young University, 1946.

Charles Haggerty.....Assistant in Library (1943)
A. B., M. A., Brigham Young University, 1939, 1946.

Wayne B. Hales.....Professor of Physics and Mathematics (1930)
A. B., Brigham Young University, 1916; M. A., University of Utah, 1922; Ph. D., California Institute of Technology, 1926.

Lucile Hallam.....Instructor in Secretarial Practice (1947)
A. B., Brigham Young University, 1939.

John R. Halliday.....Professor of Music (1936)
A. B., M. A., Brigham Young University, 1935, 1936; Ph. D., Music Theory, Eastman School of Music, University of Rochester, N. Y., 1941.

May C. Hammond.....Assistant Professor of Elementary Education (1925)
B. S., Brigham Young University, 1934.

George H. Hansen.....Professor of Geology and Geography (1927)
B. S., Utah Agricultural College, 1918; M. S., Ph. D., George Washington University, 1925, 1927.

William F. Hansen.....Assistant Professor of Music (1924)
B. S., M. S., Brigham Young University, 1936, 1937; Teacher's Certificate, Chicago Musical College, 1924.

Bertrand F. Harrison.....Professor of Botany (1929)
B. S., M. S., Brigham Young University, 1930, 1931; Ph. D., University of Chicago, 1937.

Anna Boss Hart*.....Assistant Professor of Secondary Education (1939)
B. S., Utah State Agricultural College, 1923; M. A., University of Southern California, 1933.

Charles J. Hart.....Professor of Physical Education and Athletics (1925)
B. S., Utah State Agricultural College, 1922; M. A., New York University, 1932; Ed. D., New York University, 1945.

John E. Hayes.....Registrar (1903)
B. S., Brigham Young University, 1924.

Franklin R. Haymore.....Manager of University Press (1940)
B. S., Brigham Young University, 1939.

C. Lynn Hayward.....Associate Professor of Zoology (1930)
B. S., M. S., Brigham Young University, 1927, 1931; Ph. D., University of Illinois, 1941.

Joyce H. Henderson.....Instructor in Physical Education (1947)
B. S., University of Utah, 1946.

Elizabeth Hill.....Assistant in Counseling of Women (1944)
A. B., Brigham Young University, 1941; M. A., Columbia University, 1944.

Leona Holbrook.....Professor of Physical Education (1937)
B. S., University of Utah, 1929; M. A., Columbia University, 1935.

Harrison Val Hoyt.....Professor of Accounting and Business Administration (1921)
B. S. (Engineering), Purdue University, 1913; M. B. A., Harvard University, 1917; Ph. D., Stanford University 1931.

Elda B. Jackson.....Instructor in Elementary Education (1948)
B. S., Brigham Young University, 1948.

*On Leave

Briant S. Jacobs.....Assistant Professor of English (1946)
B. A., Brigham Young University, 1939; Ph. D., State University of Iowa, 1944.

M. Wells Jakeman.....Assistant Professor of Archaeology (1946)
A. B., University of Utah, 1931; M. A., University of Southern California, 1932; Ph. D., University of California (Berkeley), 1938.

C. Lavoir Jensen.....Instructor in Secondary Education (1921)

Christen Jensen.....Professor of History and Political Science; Dean. Graduate School (1908)
A. B., University of Utah, 1907; M. A., Harvard University, 1908; Ph. D., University of Chicago, 1921.

Edgar M. Jensen.....Professor of Education
Director, Teacher Placement Bureau (1927)
A. B., M. A., Brigham Young University, 1916, 1919.

John F. Jones.....Coordinator of Student Organizations and Director of Student Housing (1947)
B. A., University of Utah, 1935.

Mary Jorgensen.....Instructor in Home Economics (1947)
B. S., Utah State Agricultural College, 1939.

Joseph J. Keeler.....University Organist (1935)
B. S., Brigham Young University, 1940.

Edwin R. Kimball.....Professor of Physical Education and Director of Athletics (1935)
B. S., Brigham Young University, 1926; M. S., University of Southern California, 1935.

Hattie M. Knight.....Circulation Librarian (1941)
B. S., Brigham Young University, 1941; B. S. in L. S., University of Denver, 1943.

Asael C. Lambert.....Professor of Economics
Dean of Summer Session (1924)
B. S., M. S., Brigham Young University, 1925, 1926; Ph. D., Stanford University, 1935.

Bent F. Larsen.....Professor of Art (1908)
A. B., Brigham Young University, 1912; M. A., University of Utah. 1922.

Clinton F. Larson.....Instructor in English (1947)
A. B., M. A., University of Utah, 1942, 1947.

Reuben D. Law.....Professor of Education, Dean of College of Education (1936)
B. S., M. S., Utah State Agricultural College, 1928, 1933; Ed. D., University of Southern California, 1941.

Harold W. Lee.....Associate Professor of Modern Languages (1937)
A. B., M. A., Brigham Young University, 1938, 1940; Ph. D., Stanford University, 1946.

Wilford D. Lee.....Instructor in English (1934)
A. B., M. A., Brigham Young University, 1934, 1937.

Norma Rae Lees.....Instructor in Physical Education (1947)
B. S., University of Utah, 1945.

George L. Lewis.....Assistant Instructor in Secondary Education (1946)
A. B., M. A., Brigham Young University, 1934, 1947.

Wesley P. Lloyd.....Professor of Philosophy of Education; Dean of Students (1935)
B. S., M. S., Brigham Young University, 1927, 1934; Ph. D., University of Chicago, 1937.

Ferron C. Losee*.....Graduate Manager of Athletics (1946)
B. S., Brigham Young University, 1936; M. S., University of Southern California, 1938.

Howard D. Lowe.....Assistant Professor of Accounting and Business Administration (1947)
B. S., Brigham Young University, 1945.

John Wells McAllister.....Instructor in Education and Public School Music (1944)
A. B., Brigham Young University, 1927.

H. Neil McKnight.....Instructor in Accounting and Business Administration, Assistant Manager of Student Supply Association (1937)
B. S., Brigham Young University, 1937.

Brigham D. Madsen.....Assistant Professor of History and Political Science (1948)
B. A., University of Utah, 1938; M. A., University of California, 1940.

Farrell D. Madsen.....Assistant Professor of Secondary Education (1947)
A. B., M. A., Brigham Young University, 1933, 1942.

Florence Jepperson-Madsen.....Professor of Music (1910)
B. M., M. M., Chicago Musical College, 1926, 1927; Doctor of Music, Boguslawski College of Music, 1932; A. B., Brigham Young University, 1934; M. M., Honorary Doctor of Music, Chicago College of Music, 1933.

Franklin Madsen.....Professor of Music (1920)
A. B., Brigham Young University, 1925; M. A., Brigham Young University, 1931; B. M., 1926; M. M., 1927; B. M. E., 1928; Mus. Doc., 1929; M. M. E. 1932; Honorary Doctor of Music Education, Boguslawski College of Music, 1933; Honorary Doctor of Music Education, Chicago College of Music, 1934.

*On Leave

Georgia Maeser*.....Assistant Professor of Elementary Education (1926)
B. S., Brigham Young University, 1928; M. A., Columbia University, 1938.

Fred Markham.....Architect for the University (1947)
B. S., Brigham Young University, 1924.

Milton Marshall.....Professor of Physics (1919)
A. B., Brigham Young University, 1918; Ph. D., University of Chicago, 1924.

Thomas L. Martin.....Professor of Agronomy and Bacteriology, Dean, College of Applied Science (1921)
A. B., Brigham Young University, 1912; Ph. D., Cornell University, 1919.

Charles E. Maw.....Professor Emeritus of Chemistry (1903)
A. B., Stanford University, 1903; M. S., University of Chicago, 1916; Ph. D., Stanford University, 1924.

Winston Mercer.....Instructor in Secondary Education (1947)
A. B., Brigham Young University, 1942.

Amos N. Merrill.....Professor Emeritus of Secondary Education (1905)
B. S., Utah Agricultural College, 1896; M. S., University of Illinois, 1908; Ph. D., Stanford University, 1926.

Elmer Miller.....Professor of Economics
B. S., Brigham Young University, 1942.

Karl Miller.....Chief Engineer, Heating & Lighting (1934)
B. S., Brigham Young University, 1932.

Martin L. Miller.....Instructor in Mathematics (1942)
A. B., Brigham Young University, 1942.

Floyd Millet.....Assistant Professor of Physical Education Coach of Basketball and Track (1937)
A. B., Brigham Young University, 1933; M. S., University of Southern California, 1939.

Alonzo J. Morley*.....Professor of Speech (1928)
A. B., M. A., Brigham Young University, 1925, 1934; Ph. D., University of Iowa, 1935.

Warren Richard Nelson.....Instructor in Religion (1947)
B. S., Utah State Agricultural College, 1937.

Hugh Nibley.....Associate Professor of History and Religion (1946)
A. B., University of California at Los Angeles, 1934; Ph. D., University of California, Berkeley, 1938.

Henry J. Nicholes.....Assistant Professor Zoology (1946)
A. B., Brigham Young University, 1935; M. S., University of Wisconsin, 1939; Ph. D., University of Wisconsin, 1941.

*On Leave

Joseph K. Nicholes.....Profesor of Chemistry (1933)
A. B., Brigham Young University, 1916; M. A., Stanford University, 1924.

Reed Nilsen.....Assistant Coach, Instructor in Physical Education
B. S., Brigham Young University, 1943.

Carol Oaks.....Instructor in English (1946)
A. B., Brigham Young University, 1943; M. A., University of Chicago, 1946.

Anna Ollorton.....Librarian Emeritus (1919)
A. B., Brigham Young University, 1913.

T. Earl Pardoe.....Professor of Speech (1920)
Graduate, Leland Powers School, 1913; A. B., Brigham Young University, 1925; M. A., University of Southern California, 1912; Ph. D., University of Louisiana, 1936.

Kathryn B. Pardoe.....Assistant Professor of Speech (1947)
A. B., Brigham Young University, 1934.

Leland M. Perry.....Superintendent of Buildings & Grounds

John W. Payne.....Assistant Professor of Sociology (1947)
A. B., Brigham Young University, 1936.

Cornelius R. Peterson.....Assistant in Treasurer's Office (1938)
B. S., Brigham Young University, 1936.

Dean A. Peterson.....Assistant Professor of Secretarial Practice
Associate Registrar (1942)
B. S., Brigham Young University, 1938; M. S., University of Southern California, 1942.

Hermese Peterson.....Professor of Elementary Education
Principal of Elementary Training School (1912)
B. S., Brigham Young University, 1928.

Hugh W. Peterson.....Associate Professor of Chemistry (1927)
A. B., M. A., Brigham Young University, 1916; Ph. D., University of Iowa, 1936.

Richard D. Poll.....Assistant Professor of History and
Political Science (1948)
B. A., M. A., Texas Christian University, 1938, 1939.

A. Smith Pond.....Professor of Economics (1937)
A. B., University of Utah, 1926; Ph. D., Northwestern University, 1942.

Margaret S. Potter.....Instructor in Home Economics (1946)
B. S., Brigham Young University, 1939.

M. Wilford Poulson.....Professor of Psychology (1910)
A. B., Brigham Young University, 1914; M. A., University of Utah, 1919.

Paul D. Proctor*.....Assistant Professor of Geology (1947)
B. A., University of Utah, 1942; M. A., Cornell University, 1943.

Ernest Reimschiissel....Instructor in Landscape Architecture (1942)
A. B., Brigham Young University, 1940.

Leonard William Rice*.....Assistant Professor of English (1941)
A. B., Brigham Young University, 1941; M. A., University of Washington, 1943.

Naoma Rich.....Associate Librarian (1937)
B. S., Brigham Young University, 1931; Certificate in Library Science, Riverside Library Service School, 1932.

Stella P. Rich.....Assistant Professor of English (1927)
B. S., Brigham Young University, 1926.

Grant S. Richards.....Associate Professor of Animal Husbandry (1945)
B. S., M. S., Utah State Agricultural College, 1940, 1942.

Beth Richardson.....Reserve Librarian (1941)
A. B., Brigham Young University, 1940; B. S. in L. S., University of Denver, 1944.

R. Max Rogers.....Assistant Professor of German (1945)
A. B., M. A., Brigham Young University, 1940, 1942.

Antone K. Romney.....Professor of Philosophy of Education and Guidance
Chairman of Counselling Service (1945)
B. S., M. S., Brigham Young University, 1933, 1934; Ed. D., Stanford University, 1947.

Catherine Romney.....Instructor in Home Economics (1946)
B. S., Brigham Young University, 1939.

Ed M. Rowe.....Professor of English (1924)
A. B., Brigham Young University, 1923.

Howard E. Salisbury.....Instructor in Religion (1946)
A. B., Brigham Young University, 1937.

Lawrence W. Sardoni.....Associate Professor of Music (1945)
A. B., M. A., Brigham Young University, 1935, 1946.

Keifer B. Sauls.....Secretary-Treasurer, Board of Trustees (1921)
B. S., Utah State Agricultural College, 1920.

James Wyley Sessions.....Professor Emeritus of Religious Philosophy, Director of Religious Activities (1939)
B. S., Utah State Agricultural College, 1911; M. A., University of Idaho, 1928.

Oliver R. Smith.....Assistant Professor of Journalism (1938)
A. B., Brigham Young University, 1938.

*On Leave

Richard Leo Smith.....Associate Professor of Accounting and Business Administration (1947)
B. S., University of Utah, 1946; M. S., Northwestern University, 1947; C. P. A., Illinois, 1947; C. P. A., Utah, 1948.

Wilford E. Smith.....Instructor in Sociology
A. B., University of Utah, 1943; M. A., Brigham Young University, 1948.

Richard Smoot.....Instructor in Religion (1948)

Seth E. Smoot.....University Physician (1947)

William H. Snell.....Professor of Mechanic Arts (1915)
A. B., M. S., Brigham Young University, 1918, 1939.

H. Wayne Soffe.....Instructor of Physical Education and Assistant Athletic Coach (1938)
B. S., M. S., Brigham Young University, 1938, 1941.

Wayne L. Sorenson.....Instructor in Secondray Education (1947)
B. S., Brigham Young University, 1940.

LeRoy Sparks.....Instructor in Secondary Education (1944)
A. B., Utah State Agricultural College, 1928.

Irene Osmond Spears.....Associate Professor of Modern Languages (1936)
A. B., Brigham Young University, 1929; M. A., Ph. D., Stanford University, 1934, 1942.

Lucile Spencer.....Assistant in Registrar's Office (1940)
B. S., Brigham Young University, 1940.

Sidney B. Sperry.....Professor of Old Testament Languages and Literature (1932)
Director of Religious Instruction
A. B., University of Utah, 1917; M. A., Ph. D., University of Chicago, 1926, 1931.

Russell H. Stansfield.....Instructor in Secretarial Practice (1947)
B. S., Brigham Young University, 1940.

George Stewart.....Special Professor of Agronomy (1932)
B. S., Utah State Agricultural College, 1913; M. S., Cornell University, 1918; Ph. D., University of Minnesota, 1926.

Joics Stone.....Instructor in Philosophy of Education and Guidance

Josephine Strong.....Instructor in Elementary Education (1936)
B. S., Brigham Young University, 1944.

Joseph Sudweeks.....Associate Professor of Educational Administration (1925)
B. S., University of Idaho, 1912; M. A., University of Chicago, 1920; Ph. D., University of Wisconsin, 1925.

Margaret Summerhays.....Assistant Professor of Music (1927)

A. B., Brigham Young University, 1936; Graduate, New England Conservatory of Music, 1916.

John C. Swensen.....Professor Emeritus of Sociology (1898)
A. B., Stanford University, 1898; M. A., Columbia University, 1921.

Russell B. Swensen.....Professor of History (1933)
A. B., Brigham Young University, 1926; M. A., Ph. D., University of Chicago, 1931, 1934.

Albert D. Swensen.....Assistant Professor of Chemistry (1947)
A. B., M. A., 1938, 1939, Brigham Young University; Ph. D., University of Louisiana, 1941.

Orea B. Tanner.....Assistant Professor of English (1938)
A. B., Brigham Young University, 1932.

Vasco M. Tanner.....Professor of Zoology and Entomology (1925)
A. B., Brigham Young University, 1915; M. A., University of Utah, 1920; Ph. D., Stanford University, 1925.

Ethelyn Peterson Taylor.....Assistant Professor of Secretarial Practice (1946)
B. S., Brigham Young University, 1937.

J. Golden Taylor.....Instructor in English (1945)
B. S., M. A., Brigham Young University, 1936, 1940.

Weldon J. Taylor.....Associate Professor of Marketing (1937)
B. S., Brigham Young University, 1934; M. B. A., Harvard Graduate School of Busines Administration, 1937.

Glen M. Turner.....Assistant Professor of Art (1947)
B. S., M. S., Brigham Young University, 1940, 1948.

L. Elliott Tuttle.....Assistant Professor of Geography (1936)
B. S., M. S., Brigham Young University, 1938, 1948.

Clarence Tyndall.....Director of the Bureau of Audio-Visual Instruction and Instructor in Education (1946)
B. S., Brigham Young University, 1941.

Lee Benson Valentine*.....Assistant Professor of Spanish (1938)
A. B., Brigham Young University, 1939.

Anna S. Wakefield.....Instructor in Secretarial Practice (1945)
B. S., Brigham Young University, 1945.

J. Homer Wakefield.....Instructor in Music
B. S., M. S., Brigham Young University, 1924, 1933.

Effie Warnick.....Professor of Home Economics (1922)
B. S., Utah State Agricultural College, 1914; M. S., Iowa State Colege, 1937.

Jean Anne Waterstradt.....Instructor in English (1945)
A. B., Brigham Young University, 1945.

Stanley H. Watts.....Instructor in Physical Education and Assistant Athletic Coach (1947)
B. S., Brigham Young University, 1938.

Dale H. West.....Instructor in English (1947)
A. B., Brigham Young University, 1940.

W. Ray Wight.....Instructor in Journalism (1947)
A. B., University of Utah, 1934.

Ruth Wilson.....Instructor in Secondary Education (1947)
B. S., Brigham Young University, 1945.

John H. Wing.....Assistant Professor of Chemistry (1931)
B. S., M. S., Brigham Young University, 1926, 1934.

Vera B. Woodland.....Instructor in Elementary Education (1945)
A. B., Brigham Young University, 1937.

Golden L. Woolf.....Professor of Secondary Education (1934)
A. B., M. A., Brigham Young University, 1934, 1936; Ed. D., University of California, 1940.

James Ira Young.....Instructor in Secondary Education (1947)
B. S., Brigham Young University, 1947.

Karl E. Young.....Professor of English (1930)
B. A., M. A., Oxford University, 1930, 1934.

SPECIAL INSTRUCTORS

N. LaVerl Christensen, B.S., Special Instructor in Journalism.

Willard Draper, M.D., Special Instructor in Bacteriology.

George W. Fitzroy, Special Instructor in Piano.

Norman Hunt, A.B., Special Instructor in Trombone, Baritone, Sousaphone.

Elmer E. Nelson, Special Instructor in Piano.

Max M. Nicholes, D.V.S., Special Instructor in Animal Husbandry.

Hannah C. Packard, A.B., Special Instructor in Vocal Music.

Lucille Sandberg, A.B., Special Instructor in Clarinet and Saxaphone.

Clyde D. Sandgren.....Special Lecturer in Political Science and Finance and Banking
LL. B., St. John's University, 1939.

Lynn Taylor, A.B., Special Instructor in Art.

Jesse W. Weight, M.D., Special Instructor in Bacteriology.

University History

Brigham Young University, formerly designated the Brigham Young Academy, was founded by a deed of trust executed by President Brigham Young, October 16, 1875.

It is in charge of a board of trustees, elected triennially, by the vote of the Latter-day Saints, acting through the First Presidency of the Church of Jesus Christ of Latter-day Saints.

For many years it was dependent upon fees and the proceeds of the original endowment for its maintenance, but in recent years an annual church appropriation has been the chief source of its finaicial support.

Buildings. The first home of the institution was in Lewis Hall, a mercantile building, standing on the northeast corner at the intersection of Center and Third West streets.

Subsequently, this building with several additions, was destroyed by fire. The school, however, resumed its sessions with the loss of but one day. The basement of the Stake Tabernacle, a store, and the First National Bank Building each housed the school for a short time.

From these temporary quarters it moved into the upper story of the Z. C. M. I. warehouse, at the corner of Sixth South street and University avenue. This was the home of the school for seven years.

In 1891 the school moved to what is now known as the Education building, a structure costing $75,000, made possible chiefly through the personal credit of President Abraham O. Smoot and his associates on the Board of Trustees.

The College building, a gift of ten persons whose names are upon a marble tablet in a hall of the building, was erected in 1898. The responsibility for raising the funds for this building was undertaken voluntarily by the late Reed Smoot, a member of the Board of Trustees.

The Training School building was built in 1902, the cost of which was met by the contributions of friends of the school chief among whom was "Uncle" Jesse Knight.

The Art building was erected in 1904, a gift of the nearby stakes comprising what was known at that time as the B. Y. U. academic district.

The Alumni Association, in honor of Dr. Karl G. Maeser, presented the institution with the Maeser Memorial building in 1911. The cost of this building was $112,000.00 "Uncle" Jesse Knight contributed liberally to the Alumni Association in this project. The heating plant and furnishings were provided by the Church. This building was the first to be erected on University Hill.

The Women's Gymnasium, which is also a recreation building, was erected in 1913.

The Mechanic Arts building, a one-story structure, on University Hill, was erected in 1919.

The Heber J. Grant Library building, also on University Hill, was erected in 1925.

The last three named buildings were built by Church appropriations.

In 1935, two stories were added to the Mechanic Arts building to provide additional classrooms and laboratories. The name was changed to George H. Brimhall building.

During the year 1935-36, a Stadium House, on the west side of the football field, was erected.

In 1937-38, Allen Hall—a men's dormitory—and in 1938-39, Amanda Knight Hall—a women's dormitory—were constructed. These will accommodate eighty and one hundred students, respectively.

The Joseph Smith building was commenced on the upper campus in 1939 and completed in 1941 as a project of the Church Welfare program to serve as the religious and social center of the University.

During the year 1943 the University acquired the National Youth Administration building on the east part of the campus for use of the Mechanic Arts Department.

In 1944, because of the acute housing problem created by the building of the Geneva steel plant, the National Youth Administration Building, acquired for a mechanical arts shop, was fitted up for a temporary dormitory for women and was so used until the spring of 1947. In 1947-48 a new wing was added to this structure. This wing was designed as a permanent women's dormitory to house 175 students. The dormitory lounges, cafeteria, and dining hall are a part of the old structure which has been remodelled, and contains also some classrooms, a spacious ballroom, which will serve as a campus recreational center, and a chapel which will be used by some of the L.D.S. wards.

Because of the enlarged student body since the war, student housing facilities have been greatly increased. Through cooperation with the government, housing for 200 married veterans and 300 single veterans in a building project known as Wymount has been provided. This new village is located on the easterly edge of the campus directly below the symbolic Y on the mountainside. Buildings for an enlarged service to students have been constructed. These include: a student health center, a large bookstore, some classrooms, many offices, a cafeteria, and some shops. In 1948 the Speech Department moved into a series of buildings on the Upper Campus known as the Speech and Radio Center. Here the B. Y. U. broadcasting station, K.B.Y.U. is located.

A large steam plant, costing $100,000, was constructed in 1946.

Other buildings which have been approved by the board and will be constructed as soon as materials are available, include an up-to-date field house and a magnificent science building.

Campus. The first campus of the school was limited to a small playground back of the building which was destroyed by fire. The present Education building was erected in the center of a block 24 by 24 rods.

Then came the purchase of University Hill. As early as 1904, steps were taken to acquire land on this site. A purchase of seventeen acres was made from Provo City. A gift of something over seven acres came from the Fourth ecclesiastical ward of Provo; part of an acre was purchased by an alumnus, and the point of the hill by the student body. Following a movement initiated by the Alumni Association, seventy-five acres were purchased in 1923-24. Since that time purchases have been made of other tracts, not only on University Hill, but adjacent to and between the two campuses, until the area now comprises approximately two hundred acres.

Administration. The first faculty consisted of the principal and two assistants, Dr. Karl G. Maeser, Dr. Milton K. Hardy, and Kristina Smoot. Dr. Karl Maeser served as principal until 1891, when he was called to the general superintendency of Church schools. Dr. Benjamin Cluff, Jr., succeeded Dr. Maeser and served as the executive head of the school until December 22, 1903. Dr. George H. Brimhall succeeded Dr. Cluff and served the institution as president until April 26, 1921, when he was made president-emeritus. On the same date Dr. Franklin Stewart Harris was appointed president, taking office July 1, 1921. Dr. Harris served until June 30, 1945, at which time he was succeeded by Howard S. McDonald.

Educational Growth. The first credential granted by the institution was a teacher's certificate given on the completion of one year's normal work. This was followed by a certificate requiring two year's normal work, followed later by the degree of Bachelor of Pedagogy, issued upon the completion of four years' normal work. Later the Bachelor of Arts and Bachelor of Science degrees were authorized to be conferred upon the completion of the regular four years' college course.

The degrees of Master of Arts and Master of Science have been authorized since 1918.

On February 11, 1909, by an action of the General Church Board of Education, the collegiate department of the University was designated The Church Teachers' College.

At the beginning of the school year. 1920-21, the name Church Teachers' College was changed to School of Education, and the School of Arts and Sciences was established. During 1921 a College of Commerce and Business Administration was organized and courses leading to a degree of Bachelor of Science outlined. The names, School of Education and School of Arts and Sciences, were changed to College of Education and College of Arts and Sciences. At the same time an Extension Division, a Research Division. and a Graduate Division were organized.

On January 25, 1922, a college of Applied Science was established to include the departments of Agronomy, Animal Husbandry, Art, Auto Mechanics, Foods and Nutrition, Horticulture, Household Administration, Textiles and Clothing, and Woodwork. On April 21, 1925, a College of Fine Arts was established to include the departments of Art, Music, and Speech.

During the year 1928-29 the Y Stadium was completed, the name of the College of Commerce and Business Administration was changed to College of Commerce, and the Graduate Division was changed to Graduate School.

On January 11, 1940, there was established a Division of Religion in which were centered the religious teaching and religious activity of the institution.

War Servce. During the War the University aided in training personnel for the Army through the following programs: The Army Specialized Training Program, Engineering Science Management and Defense Training, and Civil Pilot Training.

Requirements

General Requirements For Undergraduate Work

ADMISSION

Admission to the University is granted on the basis of an official application, form for which will be furnished by the Admissions Committee on request of the applicant. The prospective student should have this application on file with the Admissions Committee not later than the following dates preceding registration:

Autumn Quarter	September 1
Winter Quarter	December 1
Spring Quarter	March 1

For admission to the University, a student must be a graduate of an accredited high school, present sixteen units of high school work, or pass special subject matter examinations. The student admitted on the basis of high school credits earned must offer among his credits the following:

English	3 units
A principal group	3 or more units
A secondary group	2 or more units

The principal and secondary groups must be selected either from Mathematics and Science or from History and Social Science. At least one unit in Mathematics, either Algebra or Geometry, must be included in either the principal or the secondary group. If the principal group is from Mathematics and Science, the secondary group must be from History and Social Science, or vice versa.

A student twenty-one years of age or over, who has not completed sixteen units of high school work, may register as an unmatriculated student. He may pursue any course for which he has sufficient educational background. Students twenty-one years of age or over and all veterans are permitted to register as regular students after successful completion of the General Educational Development Tests.

WITHDRAWAL FROM CLASSES

Students discontinuing registration at the University are required to clear their termination through the office of the Dean of Students.

Students withdrawing from individual classes shall clear with the dean of the college or the chairman of the Counseling Service.

a. If a student withdraws from a class during the first three weeks of a quarter, the permanent record will show no registration for the class in question.

b. If a student withdraws from a class during the second three weeks of a quarter, the permanent record will show the letter "W" for the class in question.

c. The permanent record for students who withdraw after the first six weeks of each quarter will show "W" for classes in which the student is doing passing work at the time of withdrawal and "E" for classes in which the student is doing failing work at the time of withdrawal.

Course Divisions

Undergraduate courses of study are divided into:

(a) Lower Division
(b) Upper Division

Lower Division courses are numbered in the catalogue from "1" to "99." Upper Division courses from "100" to "199."

Graduate courses are given numbers "200" and above.

Election of Studies

The student, in electing his studies, should, with the advice and approval of the dean of the college in which he registers, elect such studies as are desirable. The major and minor, as well as the general, requirements for graduation should be kept in mind in electing studies. **Three credit hours in lower division Physical Education and one credit hour in Health I are required of all Freshmen.**

Should a resident student desire to take courses by correpondence or in extension classes, the approval of the student's dean must be secured, and the correspondence or extension work entered upon the regular registration card. Excess work taken by correspondence or extension classes not approved in this manner, will not be recorded for credit. Resident students of other institutions who apply for correspondence or extension class work at this University must have their proposed registration approved by the president of the institution in which they are registered. Students wishing to transfer correspondence credits from other institutions are subject to examination by the University department concerned.

At least five quarters of lower division work should be completed before the student registers for upper division work, unless in certain sequences the dean, with the consent of the instructor, advises otherwise. Included in the lower division work must be English 1, 2, 3; and for the A. B. degree, twelve hours in foreign language work. (A minimum of twenty-four hours of foreign language work or its equivalent must be obtained by the end of the college course for the A. B. degree.) It is recommended that as far as possible group requirements be completed by the close of the sophomore year.

Classification of Students

A regular student with fewer than forty-five credit hours at the beginning of the school year wil be classed that year as a freshman.

A regular student with more than forty-five credit hours and fewer than eighty-nine credit hours at the beginning of the year will be classed during that year as a sophomore.

A regular student with more than eighty-nine credit hours and fewer than one hundred thirty-five at the beginning of the school year will be classed during that year as a junior.

A regular student with more than one hundred thirty-four credit hours at the beginning of the school year will be classed during that year as a senior.

A student who has met the entrance requirements but who registers for nine hours of work or less will be designated a "special student."

Credits

A student may have credit entered on the books of the University as follows: 1. For work done in the regular courses offered by the institution. 2. For work done in an accredited college when such credit is to be used for graduation from the University, the amount to be determined by the committee on Admission and Credits. 3. By passing a satisfactory examination in any course offered by the University under the supervision of the head of the department concerned. Credits from other schools should be filed with the Registrar upon entrance.

Special examinations for advance credit will be given only with the consent of the head of the department concerned, the dean of the college in which the student is registered, and the committee on Admission and Credits.

An incomplete course of study must be completed during the next quarter of residence, provided the next quarter of residence is within one year; otherwise the course must be retaken in a class, or a special examination taken to obtain credit.

A fee of $3.00 per credit hour is charged for special examinations, provided the total fee for any one subject does not exceed $25.00.

University Credits Recognized

Brigham Young University is on the list of approved colleges of the Association of American Universities. It is also a member of the Northwest Association of Secondary and Higher Schools, the American Council on Education, and the Association of American Colleges.

The university is on the approved list of the American Association of the University Women.

The Extension Division is a member of the National University Extension Association and the American Association for Adult Education.

University credits are accepted as widely as those of other similarly rated institutions.

Graduation

General Requirements

For a student to be admitted to candidacy for a diploma or a degree, his scholastic record must show that he has satisfied the entrance requirements, and that he can fulfill all the requirements for graduation on the completion of the courses for which he is registered. At the time of graduation each candidate must be properly registered in the University, and must have completed at least forty-five hours of work in residence.

The following graduation requirements apply to all candidates for a bachelor's degree from any of the colleges of the University:

Total amount of credit.....186 hours
Upper division work (minimum).....60 hours
Requirement for a major.....35 to 45 hours
Requirement for a minor.....20 hours

Group Requirements:

Mathematics and Physical Science.....12 hours
Biology and Psychology.....12 hours
Social Science.....12 hours
English and Foreign Languages.....18 hours

Two credit hours in Religion are required of every student for each quarter in residence.

Lower Division Courses Required:

English 1, 2, and 3.
Physical Education: Three credit hours in lower division.
Health 1.

A candidate for a Bachelor of Arts degree is required to furnish 24 credit hours in a foreign language. Shopwork, shorthand, and typing will not be credited toward the A. B. degree.

Not more than 28 hours of "D" grade credit will be applied towards graduation.

Students who expect to be graduated at the end of the Spring quarter should file application with their dean not later than the beginning of the Winter quarter. All conditions must be removed not later than ten days before graduation.

Students who fulfill all requirements for graduation at the close of the Summer session and who have filed application for

graduation not later than thirty days preceding the close of the Spring quarter may have their graduation certified to by the proper authorities of the University, but they shall not be publicly graduated until the annual commencement of the following year.

The University reserves the right to change the requirements for graduation, and a candidate for graduation will be asked to comply with all changes which pertain to the uncompleted portion of his course. The University Council is the body authorized to prescribe requirements of graduation and to pass on candidates.

Group Requirements

Ordinarily the object of the first two years of the University curriculum is to introduce the student to fundamental fields of human interest and to provide a broad basis for later specialization. In order that these purposes may be achieved, certain studies should be completed under the direction of the respective deans. Before a regular student will be permitted to register for more than five quarter hours of upper division work during any one quarter, he must choose or be tentatively assigned to a major professor and have completed the number of hours prescribed in each of the following groups:

1. Mathematics and Physical Science, 12 hours. (Mathematics, Chemistry, Physics, Geology, and Geography.) To satisfy the twelve-hour group requirements the student is urged to take work in at least two departments. At least one of the courses taken must require no fewer than two hours of laboratory work each week.

2. Biology and Psychology, 12 hours. (Bacteriology, Botany, Zoology and Entomology, Psychology.) To satisfy the twelve-hour group requirement the student is urged to take work in at least two departments. At least one of the courses must require no fewer than two hours of laboratory work each week.

3. Social Science, 12 hours. (Archaeology, Economics, History, Political Science, Sociology.) To satisfy the 12-hour group requirement the student is urged to take work in at least two departments.

4. English and Foreign Languages, 18 hours, at least 12 of which must be in English. This group must include English 1, 2, and 3. In case a student has credit for at least two units of foreign language taken in high school, this group may be reduced to 14 hours.

Major and Minor Requirements

At the beginning of his college course, and in no case later than his Junior year, each student should select his major department, the head of which in connection with his dean, will serve as his special adviser. At the time of his graduation he must have completed from thirty to forty-five quarter hours in the department, and no fewer than twenty hours in collateral or minor subjects which meet the approval of the head of his major department.

In cases where the prospective graduate's high school and college work shows marked evidence of deficiencies in grade of scholarship, in breadth of training, or a preparation for probable future activity, the head of the department in consultation with the dean may prescribe certain additional specified courses to the extent of fifteen quarter hours according to the needs of the particular student.

Scholarship Honors

In recognition of specially meritorious work, scholarship honors are granted to certain members of classes graduating with the Bachelor's degree. Such honors will be accorded on the following basis:

First: There is only one designation in recognition of high scholarship merit, namely, Graduation with Honor.

Second:The award of Graduation with Honor is made on the basis of excellence shown in work up to but not including the Spring quarter of the senior year.

Third: A student receiving the award of Graduation with Honor must rate as one of the highest five percent in scholarship in the graduating class. This rating is determined by computing a grade-point average by weighting the grades as follows: "A" counts 3, "B" counts 2, "C" counts 1, "D" counts 0, "E" counts -1; and by dividing the total number of points by the number of credit hours acquired.

Fourth. It shall be the duty of the Committee on Graduation to make selection of candidates in accordance with these provisions.

Fifth. The announcement of honor awards is to be made at the annual commencement exercises.

Term Honors. The University will post and publish at the close of each quarter of the regular school year the names of the students who have received 'A" grades in not fewer than sixteen hours.

The Graduate School

Christen Jensen, Dean

All graduate work leading to higher degrees is administered under the direction of the Council of the Graduate School.

Grauate courses, numbered above 200, are listed under department of instruction but are administered by the department head and the Dean of the Graduate School.

The functions of the Council of the Graduate School are to prescribe the conditions for admission to the School, to determine the requirements for graduate degrees, to regulate the holding of examinations for degrees, to grant graduate fellowships, scholarships, and other stipends, and to perform all other functions and duties which pertain to the administration of graduate work in the University. The Dean is the administrative officer of the Council.

Each graluate student is presumed to be familiar with all catalogue discussions which relate to graduate work.

Character of Graduate Work. The essential aim of graduate study is to develop the power to do independent work to encourage the spirit of research. Each candidate for a higher degree is expecte to possess a broad, general knowledge of his major field and a fair degree of information in closely related subjects.

Entrance. All students pursuing graduate work will be registered by the Dean of the Graduate School. Students holding a baccalaureate degree equivalent to that conferred by Brigham Young University will be granted admission to the Graduate School. Forms for admission may be obtained at the office of this School. When these forms have been completed, they should be filed with the Dean.

If, during any quarter of the senior year, a candidate for a baccalaureate degree finds it possible to complete **all** requirements for such degree with a registration of fewer than sixteen quarter hours of undergraduate credit, he may register with the Dean of the Graduate School for graduate credit to the extent that the total registration shall not exceed sixteen quarter hours during such quarter.

No graduate student is permitted to register for more than sixteen quarter hours of credit during any one quarter. Students who serve as teaching assistants, laboratory assistants, or readers, or who engage in other activity aside from their courses of study will be required to reduce their registration in proportion to the amount of non-course work in which they are engaged.

Admission to graduate courses is granted only to those students who have the requisite undergraduate work for those courses. Before the end of his first quarter of residence in the Graduate School a student is required to pass a written qualifying examination based on the undergraduate work which forms the foundation of his graduate major. This regulation is effective with the beginning of the academic year 1948-49.

Graduate credit is given under the following conditions: (1) The courses for which graduate credit is given must be definitely catalogued as courses carrying graduate credit. (2) Only those students who are eligible to receive graduate credit at the time of registration for a course will receive graduate credit for such a course.

Admission to Candidacy. Entrance into the Graduate School does not admit a student to candidacy for a higher degree. A graduate student who has been in residence one quarter or more, who has passed a qualifying examination, whose thesis subject has been approved, and who has given evidence of ability to do work of a graduate character may on the recommendation of his major department be admitted to candidacy for a higher degree by vote of the Graduate Council. The mere accumulation of credit does not necessarily indicate ability to do graduate work. All applications for admission to candidacy for a higher degree should be made to the Dean of the Graduate School on a form which may be obtained in his office.

Requirements for the Master's Degree. Two higher degrees are offered: Master of Arts (A.M.), provided the candidate meets the foreign language requirements for the A.B. degree; and Master of Science (M.S.), if the candidate does not meet the foreign language requirement for the A.B. degree. A candidate will be graduated upon the completion of the following requirements: (a) a baccalaureate degree from an accredited institution; (b) 45 quarter hours of graduate credit approved by the Dean of the Graduate School and major professor; (c) a minimum residence of three quarters in the Graduate School; (d) a satisfactory thesis; (e) the passing of a final examination.

All requirements for the Master's degree must be completed within five consecutive years from the time that a student registers in the Graduate School. This regulation is effective with the beginning of the year 1948-49.

A candidate must secure a grade of "B" or above in three-fourths of his graduate work. No grade below "C" will count towards a Master's degree. An applicant for this degree must furnish at least one-half of his graduate credit in his major subject.

The remainder of the credit for this degree must be obtained in work closely related to the major subject.

When a student has received credit on an undergraduate level for any particular course, he may not receive graduate credit for the same course.

A maximum of nine (9) quarter hours of graduate extension credit may be applied toward a Master's degree, provided such credit has been earned through the Extension Division of this University and has been approved by the Director of the Extension Division and the Dean of the Graduate School at the time the student registers for such credit. All extension credit used to fulfill requirements for a higher degree must be closely allied with the major subject. No credit obtained in Home Study (Correspondence) course can be applied toward a Master's degree.

A maximum of nine (9) quarter hours of graduate credit earned in another accredited college or university may be applied toward a Master's degree provided such credit is closely integrate to the candidate's major field of study.

Under no circumstances will a candidate be permitted to apply more than a maximum of fifteen (15) quarterly hours of combined extension and transferred credit in fulfilling the requirements for a higher degree. A minimum of thirty (30) quarter hours of graduate credit must be secured in residence in this institution. The use of extension credit and transferred credit for the Master's degree shall under no conditions modify the University requirement that a candidate for this degree must be in residence during a minimum of three quarters.

A graduate student may select his major professor in consultation with the head of the major department.

Thesis. A candidate for a Master's degree must submit a thesis which is based on work done in some field of investigation within the major department and which shows evidence of independent research. The direction of the writing of the thesis shall be under the supervision of a committee to be known as the Thesis Committee. This committee shall consist of the major professor who shall act as chairman and two other faculty members. The determination of the thesis subject and the personnel of the thesis committee is left to the major department, subject to the approval of the Graduate Council. The thesis subject and the committee must be approved no later than two quarters before the degree is conferred. This rule is effective at the beginning of the academic year 1948-49.

Each thesis is to be written in accordance with the provisions contained in the manual known as "A Manual for Writers of Dissertations" by Kate L. Turabian.

Each candidate is required to furnish abstracts of his Master's thesis—one abstract to accompany each copy of the thesis. The abstract is to have a maximum word limitation of 1400 words. A candidate must deliver complete unbound, approved copies of his thesis to his major professor and to the Dean of the Graduate School at least five days before the date of the final examination; otherwise the examination cannot be held as scheduled. A bound, typewritten copy of the thesis must be furnished to the University Library and also to the Church Historian's Office.

Final Examination. At least fifteen days before graduation, the candidate must take a final examination to be conducted by an examining committee of five voting members to be appointed by the Dean of the Graduate School in consultation with the major professor. The candidate, in order to pass this examination successfully, must receive four or more favorable votes. The examination may be oral or written at the discretion of the major department and must be held on the University campus under the direction of the major professor.

Summer Quarter

It is the policy of the Brigham Young University to make the summer session one of the regular quarters of the school year. A large corps of teachers, supplemented by well known educators from other institutions, offers a wide range of subjects from each of the departments of the school.

The summer session is divided into two terms so that students may be in attendance only part of the summer, if they desire, without hindrance to the completion of their courses. The first term is held on the Provo campus. The second term, ordinarily held on the Alpine Campus on the east slope of Mount Timpanogos, has been held, since the war, on the City Campus.

Arrangements are currently being made to offer specialized courses in geology, geography, botany, zoology, and art at the Alpine Campus.

The summer session provides the opportunity for persons who are employed during the usual nine months of schooling to pursue graduate work. It provides regular students the opportunity to complete requirements for graduation in a shorter time than four years.

Extension Division

The Extension Division offers the following services: extension classes, home study (correspondence) courses, adult education lectures and lyceum numbers; speakers for educational, civic, and religious gatherings; and visual aids for school, church, and other organizations. (For more details, see Extension Division section following Courses of Instruction.)

1948-49

University Fees

(All fees are payable in advance)

Regular College and Graduate Students:

	Autumn	Winter	Spring	Total
Tuition	25.00	25.00	25.00	75.00
Gym service fee	1.00	1.00	1.00	3.00
Health service fee	3.50	3.50	3.50	10.50
Student activity fee	5.50	5.50	3.50	14.50
Total	35.00	35.00	33.00	103.00

Special College and Graduate Students:

Special student rate is $3.00 per credit hour with a minimum registration fee of $5.00 and a maximum registration of nine (9) credit hours.

Special students are subject to the late registration fee. They are not eligible for the Student Activity card, the Health Service, or the gymnasium service.

Special students auditing courses shall pay the same tuition as students taking courses for credit.

Special students taking private work only, for credit, shall pay in addition to the instructor's fee $3.00 per credit hour, but shall not be subject to the late registration fee if all the work for which they register is private.

Miscellaneous Fees:

Special Equivalency examinations per credit hour.....$ 3.00
(The maximum fee in any one subject shall not exceed $25.00).

Student Teaching fee (for those who elect Secondary Education 184, or Elementary Education 184)..... 5.00

Fee required by Department of Secondary Education for examinations prior to admission to student teaching (depending on tests selected) 3.00 to 5.00
Additional fee for late application 2.50 to 5.00

Graduation fee 10.00

Registration for graduation (for those not previously registered during the current school year) 2.50

Change of registration fee, for each change slip presented after the first week of each quarter 1.00
(Veterans will be required to pay this fee personally; it cannot be billed to the Veterans Administration).

Late Registration Fees:

A late fee of $3.00 will be charged all Freshmen and Sophomore students registering at the University for the first time who do not report to the campus at 9:00 a.m., on the officially scheduled day for placement tests and orientation work preliminary to registration.
Students who register after the officially scheduled registration days are required to pay a late registration fee of $1.00 the first day, $2.00 the second day and through the remainder of the first week, and $3.00 after the first week. **One is not registered until fees are paid.** (Veterans will be required to pay these fees personally; they cannot be billed to the Veterans Administration.)

Departmental Laboratory Fees

(Per class per quarter, except as otherwise indicated)

Agronomy 20, 21, 22, 41, 157, 257 $ 1.00
Agronomy 151, 197, 198, 251, 297, 298 2.00
Agronomy 156, 193, 194, 293, 294 2.50
Art 56, 63, 163 1.00
Art 57, 62, 156, 157, 162 1.50
Art 64, 164 5.00
Bacteriology 22 (Health 22) 1.00
Bacteriology 160 (Health 160) 2.00
Bacteriology 162, 169, 198, 297, 298 2.00
Bacteriology 183, 185, 193, 194, 283, 285, 293, 294 2.50
Botany 95, 140 2.00
Botany 150 5.00
Chemistry 3, 7, 8, 9, 14, 15, 16, 21, 22, 31, 32, 109, 133, 136, 141, 142, 143, 151, 152, 153, 161, 162, 163, 181, 182, 183, 197, 212, 213, 221, 222, 223, 251, 252, 283, 301 3.00

Fly tying 10.00
Horticulture 5.00

Elementary Education 156, 159	1.00
Geology 118	1.00
Geology 125	2.00
Journalism 26, 27	1.50
Mechanic Arts (Drawing or Eng. Drawing) 63, 64, 65, 66, 67, 68, per quarter	.50
Mechanic Arts (Mechanics) 1, 4, 6, 10, 20, 21, 23, 26, 28, 30, 31, 32, 100, 121, 123, 124, 125, 126, per credit hour per quarter	1.00
Organ rental, per hour per day per quarter	10.00
Piano rental, per hour per day per quarter	3.00
Musical Instrumental rental (Music 41, 42, 43, 141, 142, 143, 144, 145, 146 Workshop) per quarter	6.00
Physical Education 30 (Golf green fee)	2.50
Physical Education 30 (Golf equipment rental fee)	1.00-7.50
Physical Education 32, 42 (Skiing)	10.00
Physical Education 44, Recreation 44 (Hiking)	5.00
Physical Education 45, Recreation 45 (Horseback Riding)	20.00
Physics 26, (Photography)	1.50
Speech 4	.75
Speech 41, 42, 43, 44, 46, 145, 146	2.00
Zoology 11, 170, 171, 172	1.00
Zoology (Entomology) 33	2.00
Zoology 45, 165, 166, 266	2.50
Zoology 12, 13	3.00
Zoology (Service fee required of all graduate students for research courses and thesis work)	7.50

DEPOSITS

Botany 95, 140 (breakage deposit)	3.00
Mechanic Arts, (Eng. Drawing)	.50
Physical Education (towel check deposit)	.25
Physical Education (locker deposit)	1.25

Private Instruction in Music

(The following rates provide for 10 lessons per quarter)

Buggert, Gustav	$25.00
Earl, Don L.	25.00
Fitzroy, George W.	25.00
Gates, Crawford	25.00
Halliday, John R.	35.00
Hanson, William F.	25.00
Hunt, Norman	25.00
Jensen, Allen	40.00
de Jong, Gerrit Jr.	40.00

Cannon
Allen

25.00
35.00

Keeler, Joseph J.	25.00
Madsen, Florence Jepperson	35.00
Madsen, Franklin	30.00
McAllister, John W.	30.00
Nelson, Elmer E.	25.00
Nelson, Elmer E. (Piano pedagogy; 4 to 6 in a group); each	10.00
Nibley, Reid	40.00
Packard, Hannah C.	30.00
Sandberg, Lucille	25.00
Sardoni, Lawrence	30.00
Stubbs, Nila	20.00
Summerhays, Margaret	30.00
Wakefield, Homer	25.00

Vocal Study in Groups

Halliday, Jepperson-Madsen

Two students in a group	$20.00 each
Three students in a group	13.50 each

Madsen, Summerhays, Packard, McAllister

Two students in a group	$18.00 each
Three students in a group	12.00 each

Private Instruction in Speech

Clinger, Morris M., 6-p, 104-p, 105-p	$25.00
Gledhill, Preston, 6-p, 105-p	25.00
Morley, Alonzo J., 5-p, 6-p, 104-p	25.00
Morley, Alonzo J., 5-p, (in groups of three) each	12.00
Pardoe, Kathryn B., 124-p, 128-p (2 credit hours for 124-p)	30.00
Pardoe, T. Earl, 6-p, 124-p, 128-p (2 credit hours for 124-p)	30.00
Williams, Arch, 6-p, 104-p	25.00

25.00

Private Instruction in Flight

25.00

Flight Training, dual 65 H.P. engines	$ 9.00 per clock hour
Flight Training, solo 65 H.P. engines	7.50 per clock hour
Flight Training, dual 85 H.P. engines	11.00 per clock hour
Flight Training, solo 85 H.P. engines	8.50 per clock hour
Flight Training, dual 150 H.P. engines	18.00 per clock hour
Flight Training, solo 150 H.P. engines	15.00 per clock hour

Secondary Training School Fees:

Senior High School—10th, 11th, and 12th grades:

Registration fee for the year	$20.00
Activity fee	3.00
Gymnasium service fee	.50
TOTAL FEE for the year	$23.50

Junior High School—7th, 8th, and 9th grades:

Registration fee for the year	10.00
Activity fee	2.00
Gymnasium service fee	.50
TOTAL FEE for the year	12.50

Special students in Secondary Training School, per unit.... 7.50

Elementary Training School:

Kindergarten to the sixth grade, for the full year.....$10.00
Elementary Training school students who register any time during the first semester shall pay the full year's fee. Those who register during the second semester shall pay $6.00, which amount includes the late fee.

Secondary Training School students who register anytime during the first semester shall pay the full year's fees. Those who register the second semester in the Junior High School shall pay $7.50, and in the Senior High School $13.50, which amounts include the late fees.

Late Fee in Training Schools:

A late fee of $2.00 will be charged all Junior and Senior high school students who register after the first week.

A late fee of $1.00 will be charged all Elementary Training School students who register after the first week.

High School Students Taking Some College Classes:

A high school student authorized to register for college subjects shall pay in addition to the high school fees $3.00 per credit hour, but the maximum charge for the high school and college courses shall not exceed that charged a college student for the same period.

Refunds

No refunds will be granted to students who are requested to withdraw from the University because of scholarship or any other cause.

When paying fees all students are given an official receipt by the Treasurer's Office. This receipt and the Activity card must be presented when requesting a refund.

College Students:

In the event of withdrawal by either a regular or special student, a refund will be made on the basis of a per day charge of five per cent of the total fees paid for the quarter. The days charged for will be the school days beginning with the first day of the quarter on which classes were held to the day on which the student reported his withdrawal to the Office of the Dean of Students, both days inclusive, with a minimum charge for any registration of $5.00.

A student who changes from regular to special status will not be charged for the course dropped during the first week of the quarter, but will be charged one-half of the difference between regular and special fees if the change is made during the second or third week. No refund will be made after the third week.

Secondary Training School Students:

A refund of $18.50 will be made to any Senior High School student who withdraws during the first or second week of the first semester. A refund of $10.00 will be made to any student who withdraws after the second week and before the end of the first semester, but no refund will be made thereafter.

A refund of $7.50 will be made to any Junior High School student who withdraws during the first or second week of the first semester. A refund of $5.00 will be made to any student who withdraws after the second week and before the end of the first semester, but no refund thereafter.

A refund of $5.00 will be made to any Elementary Training school student who withdraws before the beginning of the Christmas holidays, but no refund thereafter.

Special Services

The Division of Special Services is responsible for the welfare of students in the following areas of university life: Admission and Credits, Athletics, Attendance and Scholarship, Awards, Housing and Dormitories, Health Services, Orientation, The Counseling Service, Petitions, Public Relations and Scholarships, Student Organizations and Social Life, Student Publications, Student Employment, Student Loans, and Women's Activities.

Dean of Students

The Dean of Students is Director of the Special Services of the University. As such, he is expected to coordinate the agencies at work on special student problems. He initiates and recommends to the President needed policies and procedures in student life. It is his responsibility to administer the program recommended or approved by the President in the various areas of the Special Services.

Counseling Service

Each student at the University is entitled to the aid of the Counseling Service. All new Freshmen and new Sophomores are registered at the University under the direction of the Counseling Service, and remain in it until each student has chosen a major field of interest.

Personnel tests are given to new students as a basis of counsel and help in educational, occupational, and personal problems. The following officials in the faculty work with the Chairman of the Counseling Service: A Chairman of Tests and Measurements, a Chairman of Occupational Information, and about twenty faculty counselors, who are released from teaching loads proportionate to the time spent in counseling.

Counselor For Women

Of special assistance to women students is a Counselor for Women. She is a member of the Committee on Special Services and Chairman of the Committee on Women's Affairs. The Counselor for Women is available throughout each day to assist women students in meeting their personal problems.

Discipline

The maintenance of standards of honor, Christian integrity, and Latter-day Saint ideals is required. Within these limits the students are given the fullest freedom. Those who fail to conform to these standards either in personal habits or associations are subject to discipline.

The use of tobacco will not be permitted, and having improper associates or visiting places of questionable repute will not be tolerated. Any disciplinary announcement made by the president of the institution becomes a part of these regulations. Violations of regulations make the offender liable to suspension or expulsion from the University.

Regular attendance is required at all recitations, laboratory and field work. The chairman of attendance and scholarship has general supervision of the disciplinary work of the institution. Regular students who are not satisfactorily carrying at least ten hours' work will not be allowed to remain in the institution. Students who fail to make a grade of "C" in at least ten hours of academic work will be on probation for the following quarter. Only one quarter of probationary standing will be allowed.

Loan Funds

The lending of the following loan funds is under the supervision of the Committee on Special Services.

The Emmeline B. Wells Relief Society Loan Fund. In honor of Emmeline B. Wells, the General Board of the Relief Society has established a loan fund to assist young women to complete their school work.

Student Loan Fund. The Sophomore class of 1922 established a loan fund to assist students to complete their school work. This fund is augmented each year, the Sophomore class assuming the responsibility for making an annual addition.

Gamma Phi Omicron Loan Fund. The Home Economics Club of the University (Gamma Phi Omicron) has established a loan fund to assist students of the Home Economics department.

Alpha Kappa Psi Loan Fund. The Alpha Kappa Psi has established a loan fund for senior students of the College of Commerce.

Federation of Women's Clubs Loan Fund. The First District Federation of Women's Clubs of Utah has established a loan fund to be lent to the senior girls of the University.

G. Melvin Paulson and Zora Colton Paulson Loan Fund. This loan fund was established by the Christensen Construction Company for the benefit of deserving students in good standing.

Paul Lewis Harding and Lucille Christensen Harding Loan Fund. This loan fund was established by the Christensen Construction Company for the benefit of women students who are in special need of assistance.

Stanley Waldo Christensen and Leah Nebeker Christensen Loan Fund. This loan fund was established by the Christensen Construction Company for deserving students in good standing.

Catherine Dean Christensen Memorial Loan Fund. This loan fund was established by the Christensen Construction Company for deserving students in good standing, preferably girls who intend to enter the teaching profession.

Richard R. Lyman Loan Fund. This revolving permanent loan fund was established by Dr. Richard R. Lyman to assist worthy students.

Utah Stake Relief Society Loan Fund. This fund was established in 1938 by the members of the Utah Stake Relief Society. It is to be used to help needy young women students.

Amy Brown Lyman Relief Society Loan and Scholarship Fund. This Loan and Scholarship Fund, available for young women students, was established in 1943 by the General Board of Relief Society.

Heber J. Grant and Augusta W. Grant Loan Fund. This permanent revolving loan fund was established by President Heber J. Grant in 1943 to assist worthy students.

Maud Rogers Taylor Loan Fund. This loan fund was established in 1943 by Thomas N. Taylor in memory of his wife, Maud Rogers Taylor. It is available for young women students.

David Parish Howells Loan Fund. This fund was established in 1944 by Mrs. Adele Cannon Howells to aid worthy students of the University to continue their education.

Association for Childhood Education of Utah Elementary Education Loan Fund. Established by the Association for Childhood Education of Utah for the benefit of promising Elementary Education students who are in need of funds to carry on their work. Application should be made to the Dean of the College of Education.

Flor Peeters Organist
Roth Quartet.....Roth, Antal, Salgo, Scholz
(Summer, five concerts and five rebroadcasts)
Suzanne Sten Mezzo-soprano
Bruce Thomas Political Observer
Utah Symphony Orchestra.....Maurice Abravanel, Conductor
Ramon Vinay.....Tenor, Metropolitan Opera Association
Dr. L. W. Warren.....Authority on Abraham Lincoln
Frances Watkins Soprano
(Summer, one concert and one appearance with Carlos Alexander)
James Wick.....Economist and Political Analyst
Tournament of Roses Band, Pasadena

Endowments

The Jesse Knight Endowment Fund. On December 21, 1914, the late Jesse Knight made an endowment to the University of one hundred thousand dollars in six per cent bonds. The interest payments on these bonds, together with the payments on bonds which have matured, have been placed at interest, and the cash credit on this account now represents approximately twice the amount of the original endowment.

The Brigham Young University Permanent Endowment Fund. June 4, 1929, the B. Y. U. Associated Alumni initiated a permanent endowment fund for the University. Some very generous contributions and subscriptions were made at this alumni reunion, and the work of building such an endowment has been carried forward by the alumni and school officials with very gratifying results. Members of graduating classes since that time have shown a remarkably loyal spirit by subscribing to this fund.

Research Funds. The University is in possession of a number of research funds which make possible scientific investigation in several specific fields.

Library, Collections Laboratories

Library

The University Library contains more than 145,000 volumes and 50,000 pamphlets and bulletins. These publications cover all phases of human interest and offer opportunity to make intensive studies in almost any field of the sciences or arts. The library has for years been a Government Depository to receive all Government documents. These documents are all well clasified and indexed. Besides the Government Documents the Library has nearly a complete set of all agricultural experiment station literature from every state in the Union. It regularly receives important state documents on education, history, politics, and various other topics as they are issued by the different states, and is on the publication exchange lists of many of the colleges and universities of the United States and elsewhere. The Carnegie Institution of Washington, the Carnegie Peace Foundation, the Rockefeller Foundation, the General Education Board, the American Council on Education, the Milbank Memorial Fund, the Bell Telephone Laboratories, and several of the largest business organizations, all supply technical and informative literature. The Library subscribes for such technical journals and magazines as are essential to a thorough college education, and it maintains its own book bindery.

Each year the Library strengthens itself along specialized lines through contributions of books to its special collections, of which the following are now active:

B. Y. U. Women (Memorial) Collection—General.
Brimhall Collection—Theology.
Bennion Collection—Biography.
Cannon Collection—General.
C. H. Carroll—Medical.
Chamberlain (Wm. H.) Collection—Philosophy.
Egbert Collection—Music.
Gates Collection—Early Middle American Literature.
Harris Collection—Mexico.
Heber J. Grant—General.
Henning Collection—Archaeology.
Hinckley Collection—Geology.
International Relations Club—International Questions.
Ivins Collection—The American Indian.

Christen Jensen Collection—Political Science.
Jex Collection—General.
Jordan Club Collection—Biology.
Lund Collection—Music.
McKay Collection—Education.
Mask Club Collection—Dramatics.
Nelke Collection—General Literature.
Reynolds Collection—Literature.
Smith (F. W.) Collection—Chemistry.
Sorosis Club Collection (Memorial)—General.
Spilsbury Collection—Home Economics.
Talmage Collection—Science and Religion.
Utah and Provo Stakes Collection—Genealogy.
Whitaker Collection—Foreign Languages.
Whitecotton Collection—Literature.
Widtsoe Collection—Agriculture.

The Library is open each school day during the regular school year from 8 A.M. until 10 P.M.; on Saturdays from 10 A.M. until 4 P.M.; and during the Summer Session from 7:30 A.M. until 9 P.M.

Departmental Libraries

Several of the departments have made collections which range from a few dozen to several thousands of books and pamphlets which are used to supplement laboratory and class work. Most of the books in the department libraries are not included in the enumeration given above for the main Library.

Scientific and Art Collections

The Archaeological Collection includes a number of well prepared case exhibits of Utah Indian materials, including pottery, basketry, stone implements, wearing apparel, and picture writing. It also includes a number of South Pacific Islands collections, together with what is though to be the finest South American collection of Indian pottery in the West.

The Botanical Collection includes a herbarium of liverworts, mosses, and vascular plants; and also an extensive series of preserved algae, fungi, liverworts, mosses, ferns, and seed plants. There is also included a series of plants which illutrate various plant diseases.

The herbarium is made up principally of plants collected throughout the Western States, but many species from other regions are included. The collection of North American plants includes 170 families, 1,000 genera, and 3,500 species, represented by about 20,000 herbarium sheets. There is also a collection of plants from Siberia, obtained by President F. S. Harris in 1929, as well as a small group of plants from Europe and from South America.

The Fine Arts Collection of paintings, sculpture, drawings, etchings, engravings, monotypes, lithographs, and reproductions of works of are are as follows:

I. Memorial Collections.
 1. The Lee Green Richards Collection of 36 paintings.
 2. The James T. Harwood Collection of 90 paintings, etchings, and drawings.
 3. The John Hafen Collection of 24 paintings.
 4. The Elbert H. Eastmond Collection of 64 paintings
 5. The John Willard Clawson Collection of 85 paintings and sketches.
 6. The Maynard Dixon Collection of 85 paintings and sketches.
 7. The Edwin Evans Collection of 61 paintings.
 8. The Rose Hartwell Collection of 71 paintings.
 9. The Rose Hartwell Crafts Collection.
 10. The Joseph Imhof Collection of lithographs.

II. There are many other Utah artists represented in the Brigham Young University Fine Arts Collection, including George M. Ottinger, Daniel Weggeland, John Hafen, Loris Pratt, John B. Fairbanks, Samuel Jepperson, Minerva Teichert, Alma Wright, Waldo Midgley, Calvin Fletcher, Cornelius Salisbury, Joseph Everett, Henri Moser, Torlief Knaphus, Avard Fairbanks, Henry Rasmussen, etc.

III. Well known national artists represented in the collection include Lee Randolph, George Elmer Browne, Fern Gary, Gordon Grant, Marie A. Hull, Haley Lever, Clarence Millet, Luis F. Mora, Chauncey F. Ryder, Matteo Sandona, W. Lester Stevens, Anthony Thieme, John Law Walker, J. Alden Weir, John Whorf, Eliot Daingerfield, George Pierce Ennis, John E. Costigan, George Henry Taggert, William Morris, Jon Corbino, J. Connaway, Robert Brackman, Peter Hurd, Marguerite Pearson, Henry W. Ranger, John Twachtman, John F. Carlson, Gene Kloss.

IV. Original etchings, lithographs, prints, including the work of Ernest Fiene, Rockwell Kent, Joe Jones, Reginald

Marsh, Waldo Pierce and Herbert Dunton and 24 Rembrandt replicas.

V. Oriental art including Japanese paintings, prints, and reproductions.

VI. Reproductions of famous works of art including various types of modern art.

VII. Large collections of slides including natural color slides and the George K. Lewis memorial collection of kodachrome slides.

The Geological Collections of the University consist of an unusually complete series of minerals and an interesting variety of fossils.

The minerals number many thousands and are representative of the great western mining districts together with hundreds of localities of note. Part of this collection once represented the nucleus of the famous Deseret Museum Collection of Salt Lake City.

The fossil series are representative of many states and typical world localities. Much of this material was also formerly a part of the Deseret Museum collection. The vertebrate collection is especially rich in original fossils and casts of the characteristic mammalian fauna that lived in the western states during the immediate geologic past.

The Zoological and Entomological Collections of the University consists of a large series of identified vertebrate and invertebrate species of Utah and contiguous states. A complete series of fish, amphibians, reptiles, birds, and mammals of this region are to be found in the collection. The fish collection is especially rich in species and speciments from the Intermountain Region. The bird collection consists of about 4,500 skins, 1,000 of which were collected in the Magdalena River Valley of South America by Chester Van Buren in 1901-03.

The Entomological collections consist of 270,000 speciments. The Tom Spaulding Collection of Utah Lepidoptera, the Chester Van Buren Collection of South American Butterflies, the Charles W. Leng Weevil Collection, the Charles Schaeffer Weevil Collection, and many species of weevils from the Blatchley Collection form important portions of this collection.

These collections are being added to annually by means of collection expeditions that are sent out to various parts of the Western United States. During 1944-45 1,500 specimens of reptiles and 25,000 specimens of insects were received from staff members and former students who were on duty in the South Pacific.

College of Applied Science

THOMAS L. MARTIN, DEAN

The aim of the College of Applied Science is to provide instruction in the scientific principles and technical operations pertaining to the farm, the home, the shop, and the professions, trades, and industries related to the same. Students may specialize in any one of the many fields of applied science and prepare for capable leadership and efficient service in their chosen lines.

The degrees, Bachelor of Science and Bachelor of Arts, are given to graduates of this College.

Majors may be selected from the following departments in the College of Applied Science: Agronomy, Animal Husbandry, Bacteriology, Horticulture and Landscape Architecture, Mechanic Arts, Home Economics.

The following courses, or their equivalents, fulfill the minimum Home Economics Department requirements for a Utah State First Class Vocational Certificate in Home Economics, and replace the department major and minor requirements.

Clothing and Textiles, 1, 2, 15, 55, 68, 80	17 hrs.
Foods and Nutrition 10, 11, 12, 25, 50	19 hrs.
Household Administration 10, 60, 61, 62, 64, 80, 81, 60b, 71, 72, 73	29 hrs.
Total	65 hrs.

Departments of Instruction
Agronomy

Professors Martin, Harrison, Stewart, Nicholes; Associate Professors Anderson, Farnsworth.

Lower Division Courses

20. Cereal Crops. (3) A. Farnsworth

Classification, history, and cultural methods involved in the production of cereal crops.

21. Root and Special Crops. (3) W. Farnsworth

Cultural methods, market types, and commercial possibilities of sugar beets, potatoes, etc.

22. Forage Crops. (3) S. Farnsworth
Alfalfa, clovers, grasses, and other forage; meadow and pasture management, silage and soiling crops are discussed.

25. Farm Management. (3) W. Farnsworth
A consideration of types of farming, farm layout, farm capital, equipment, labor, tenancy, farm records, and farm improvement.

41. Introductory Soils. (4) A. Martin
An introductory course dealing with the physical, chemical, and microbiological properties of soils.

Upper Division Courses

101. Soil Physics. (3) A. Prerequisites: Agronomy 41, Chemistry 14, 15, 16, Mathematics 11, 13. (Not given this year) Farnsworth
A detailed study of the physical composition of soils—sand, silt, clay, and organic matter, and their effects upon the air, water, and temperature relationships in the soil.

104. Soil Chemistry. (3) S. Nicholes
(See Chemistry 103)

105. Soil Fertility. (3) S. Recommended: Chemistry 14, 15, 16, and Agronomy 41. Farnsworth
This course involves a study of the underlying principles of soil fertility. Soil alkali, soil chemical analysis, commercial fertilizers, farm manures, green manures, crop rotations.

106. Soil Chemical Analysis. (3) W. Prerequisites: Agronomy 55, Chemistry 21, 22. Farnsworth
This course involves a study of the chemical analysis of soils, crop residues, and humus.

107. Soil Classification, Conservation, and Survey. (3) S. Prerequisites: Agronomy 41, Geology 1 or 12 and 132. Farnsworth
A study is made of the influence of geologic forces and climatic environment on soil development; classification of soils based upon soil profile characteristics. Methods of soil conservation and soil survey are emphasized.

110. Range Forage Crops. (3) S. Harrison
(See Botany 3)

158. Weed and Seed Analysis. (3) W. Reimchiissel
(See Horticulture 58.)

159. **Plant Breeding.** (3) W. Staff

(See Horticulture 59.)

173. **Range Management.** (3) S. Prerequisites: Botany 1, 3, 110, and 150. Harrison, Stewart

A course dealing with the problems associated with the management of range lands. It has to do with grazing, revegetation, and maintenance of range lands.

192. **Soil Microbiology.** (3) S. Prerequisites: Bacteriology 21, 22, Agronomy 105. Martin

A lecture course designed to acquaint the student with bacteria in relation to soil fertility.

193. **Soil Microbiology Laboratory.** (2) S. Prerequisites: Agronomy 92, Chemistry 21, 22. Farnsworth

A laboratory course designed to accompany soil microbiology.

196. **Seminar.** (1) A.W.S. Martin, Farnsworth

Current agronomic literature, agricultural problems. Required of all graduate students majoring in agronomy.

197. **Research.** Seniors specializing in agronomy elect research work from three to six hours. Time and credit to be arranged. Martin, Anderson, Stewart, Farnsworth

198. **Special Problems.** S. Credit and subject matter to be arranged. Martin, Anderson, Stewart, Farnsworth

Graduate Courses

223. **Advanced Range Management.** Time and credit to be arranged. Stewart

251. **Soil Physics.** (3) A. (Not given this year.) Farnsworth

257. **Soil Classification.** (3) S. Farnsworth

291. **Conservation of Plant and Soil Resources.** (4) (Not given this year) Stewart

292. **Soil Microbiology.** (3) S. Martin

293 **Soil Microbiology Laboratory.** (2) S. Farnsworth

296. **Seminar.** Credit to be arranged.

297. **Research.** Time and credit to be arranged.

298. Special Problems in Soils. Time and credit to be arranged.

299. Agricultural Literature. Time and credit to be arranged.

300. Thesis. Credit to be arranged.

Animal Husbandry

Associate Professors Richards, Farnsworth; M. Nicholes, D.V.M.

Majors in Animal Husbandry should take Zoology 11 and 28 and Chemistry 14 and 15 as soon as possible. Animal Husbandry 7 and 15 are prerequisites for most of the upper division Animal Husbandry classes. The following courses should be completed by Animal Husbandry majors during the first two years: Animal Husbandry 1, 7, 10, 11, 15, and 32.

Lower Division

1. Livestock Judging and Selection. (3) S. Richards

This course consists of a study of animal types and their relation to the functions of animals. The Brigham Young University animals will be used, and field trips will be made to farms of the county where practice in selection and judging of animals for both commercial and show purposes will be given.

2. Breeds of Livestock. (5) A. Richards

A study of the breeds of livestock with emphasis on the conditions under which the breeds were developed and their adaptability to western conitions.

7. Feeds and Feeding. (3) A. Prerequisite: High school chemistry and botany, or a college course in each. Farnsworth

A study of the practical methods in feeding.

10. Veterinary Physiology and Anatomy. (5) A. Prerequisite: Zoology 11. Preparatory course for Animal Husbandry 11. M. Nicholes

The anatomy and physiology of domestic animals are studied.

11. Veterinary Science. (5) W. Prerequisite: Animal Husbandry 10. M. Nicholes

The prevention and practical treatment of common diseases of farm animals.

15. Animal Breeding. (5) W. Prerequisites: Zoology 11 and 28. Richards

A study of the principles involved in breeding farm animals, including physiology or reproduction, heredity and variation, selection and systems of breeding.

21. Elements of Dairying. (5) A. Four lectures and one three-hour laboratory period. Richards

General principles of breeding and managing dairy cattle.

22. Cow Testing. (2) A.W.S. Richards

Instruction and actual testing for the Utah County Dairy Herd Improvement Association.

25. Farm Management. (4) W. Farnsworth

A general consideration of types of farming, farm lay-out, farm capital, and farm accounts. (See also Agronomy 25.)

32. Fitting and Showing Livestock. (3) S. Three two-hour labora tory periods per week. Richards

Each student will be assigned an animal to fit and show at one of the spring shows.

Upper Division

107. Animal Nutrition. (3) W. Prerequisite: Animal Husbandry 7. Staff

Advanced work in livestock feeding.

108. General Poultry. (3) S. (Not given this year.) Farnsworth

A study of breeding, incubating, brooding, housing, feeding, and marketing poultry.

150. Horse Husbandry. (3) S. M. Nicholes

A brief study of breeds of horses, with instruction in feeding, training, and management. Special emphasis will be given the cow-horse, and the American saddle horse. Each student will be required to work on the Annual Horse Show sponsored by the Agricultural Club in May.

154. Beef Production. (4) A. Three lectures, and one two-hour laboratory period per week. Two Saturday field trips. A field trip to Ogden Livestock Show included. Prerequisites. Animal Husbandry 7, 15. Richards

The problems of breeding, feeding, and management of range cattle, feeder cattle, and purebreds will be studied.

155. **Sheep Production.** (3) S. Prerequisites: Animal Husbandry 7, 15,. Not given this year. Alternates with Animal Husbandry 56. Richards

Feeding, care, and management of farm and range sheep.

156. **Swine Production.** (3) S. Given every other year. Alternate with Animal Husbandry 55. Staff

Breeding, feeding, and management of swine on western farms.

161. **Veterinary Clinic.** (3) S. Two lectures and one special laboratory period arranged. Prerequisites: Animal Husbandry 10, 11. M. Nicholes

Diagnosis, treatments, and laboratory and field experience in veterinary work.

162. **Dairy Bacteriology.** (3) A. Two lectures and one two-hour laboratory period per week. D. Anderson

(See also Bacteriology 62.)

165. **Artificial Insemination.** (2) W. S. Prerequisite: Animal Husbandry 15. Richards

Methods and techniques of artificial breeding will be studied, followed by laboratory work.

171. **Dairy Production.** (4) W. Three lectures and one two-hour laboratory period per week. Prerequisites: Animal Husbandry 7, 15, 21. Richards

Advanced work in feeding, breeding, and milk secretion; some instruction and practice in dairy manufacturing.

175. **Animal Husbandry Seminar.** (1) A.W.S. Required of all majors. Staff

Current problems in the field of animal husbandry will be studied and discused.

182. **Animal Husbandry Research.** Time and credit arranged. Richards

Students wil be expected to outline a research problem in some phase of Animal Husbandry.

Graduate Courses

201. **Animal Breeding Research.** (2 to 5) Time arranged Staff

202. **Animal Nutrition Research.** (2 to 5) Time arranged. Staff

203. **Animal Disease Research.** (2 to 5) Time arranged. Staff

Bacteriology

Administered jointly by College of Applied Science and College of Arts and Sciences

Professor Martin; Associate Professors Anderson, Farnsworth; J. W. Weight, M.D., W. Draper, M.D.

Bacteriology is one of the subjects comprising the composite major in Biological Science designed for prospective teachers. (See College of Education.)

Pre-nursing training is under the direction of the Department of Bacteriology. The adviser is Professor Anderson.

Lower Division Courses

21. General Bacteriology. (3) A.W., Martin; A.W.S. Anderson and Farnsworth

This course will consist of a study of the general characteristics of microorganisms and their relation to man.

22. General Bacteriology Laboratory. (2) A.W.S., Anderson; A.W. Farnsworth

Upper Division Courses

160. Sanitation and Public Health. (3) S. Prerequisites: Bacteriology 21, 22. Anderson

A study of the application of sanitary and public health practices to the health of the individual and the community.

162. Bacteriology of Milk. (3) A. Prerequisites; Bacteriology 21, 22. (Not given this year.) Anderson

Attention is given to the bacteria of milk and milk products in general, and also their relation to disease.

169. Food Bacteriology. (3) S. Anderson

A study of microorganisms responsible for food spoilage, together with the disease relationships.

173. Clinical Diagnosis. (3) S. Draper

A course designed to acquaint students with work done in hospitals and clinical laboratories. Emphasis on pathology.

174. Clinical Diagnosis Laboratory. (2) S. Anderson

181. Medical Bacteriology and Immunology. (3) W. Prerequisites: Bacteriology 21, 22; Chemistry 21, 151. Anderson

An advanced course in bacteriology designed for those who are preparing for nursing, public health, bacteriology, dietetics, and medicine.

163. Medical Bacteriology and Immunology Laboratory. (2) W. Prerequisite: Bacteriology 181 Anderson

186, 187, 188. Applied Clinical Diagnosis Laboratory. (3) A.W.S. Martin, Anderson

This work is done in an approved hospital laboratory during a year's practical intern work. The hospital is accredited by the American Medical Association through its council of Medical Education and hospitals. Its pathologists are recognized by the American Society of Clinical Pathologists. The training includes applied clinical bacteriology, serology, parasitology, micrology, hemotology, micro-technique, clinical laboratory methods, and clinical biochemistry. The final credit is allowed when a statement is received from the approved pathologist that the student has completed the intern year and is eligible to take the examinations of the American Society of Clinical Pathologists.

192. Soil Microbiology. (3) S. Prerequisites: Bacteriology 21, 22; Agronomy 41, 105; Chemistry 21, 22. Martin

A lecture and laboratory course designed to acquaint the student with microorganisms in relation to soil fertility.

193. Soil Microbiology Laboratory. (2) S. Prerequisite: Bacteriology 92. Farnsworth

196. Seminar. (1) A.W.S. Martin, Anderson, Weight, Draper

198. Special Problems in Bacteriology. Credit and subject matter to be arranged. Martin, Anderson

The burden of the course has to do with problems in determinative bacteriology, algae and fungi activities in soil, fermentation, disinfection and antiseptic studies, organisms which infect the nose and throat, food and fomite studies. Types of problems selected will be based upon the previous preparation of the student.

Graduate Courses

251. Systematic and Determinative Bacteriology.

273. Clinical Diagnosis

274. Clinical Diagnosis Laboratory.

281. Medical Bacteriology.

283. Medical Bacteriology Laboratory.

292. Soil Microbiology.

293. Soil Microbiology Laboratory.

295. Physiology and Biochemistry of Bacteria. (3) W.

296. Seminar.

298. Special Problems.

300. Thesis. Credit to be arranged.

Home Economics

Professors Warnick, Larsen, Poulson; Associate Professors Barlow, Bryner; Assistant Professor Billings; Mrs. Potter, Miss Romney, Mrs. Jorgensen

It is advised that students of Home Economics who are preparing to enter the teaching profession take the composite major in this department as this is required for a First Class five-year Certificate in vocational home economics. A major and minor may also be obtained in Clothing and Textiles, Foods and Nutrition and Household Administration.

All freshmen who expect to major in Home Economics are advised to take Household Administration 5. All teaching majors are required to take Chemistry 7, 8, and 9; Bacteriology 21 and 22; Zoology 45 or 165 and 166; Art 10, 14, and 62. Additional hours in Art should be elected.

The following courses, or their equivalents fulfill the minimum department requirements for a Utah State First Class Vocational Certificate in Home Economics and replace the department major and minor requirements. Additional courses are elected with advice of the major professor to make a total of at least 60 credit hours:

Clothing and Textiles 1, 2, 55, 170, 173, 180.
Foods and Nutrition 10, 11, 12, 50, 52, 150.
Household Administration 80, 161, 164, 165, 166, 171, 172, 173, 181, 182.

The following courses fulfill the requirements prescribed by the American Dietetic Association for pre-dietetic training:

Chemistry 7, 8, 9 and 109; Zoology 45 or 165 and 166; Bacteriology 21 and 22; Education 158 and 163; Psychology 11; Sociology 11; Economics 1; Secondary Education 181; Foods and Nutrition 10, 11, 12, 150, 151, 153, 154, 155, 156, and 175; Household Administration 160 and Accounting 1 are recommended.

Clothing and Textiles

Clothing and Textiles 1, 2, 3, 55 or 160 and 161, 120, 125, 140, 141, 142, 162, 180 and 195 are required of all who major in Clothing and Textiles. Other additional courses are elective with the advice of the major professor. Chemistry 7, 8, and 9 or equivalent and Art 10, 14 and 62 are required.

Lower Division Courses

1. or 101. Selection and Construction. (3) A.W.S. Laboratory hours to be arranged. Billings, Potter

Analysis of fashion trends as they effect the selection of personal clothing; study of basic measures used by commercial pattern makers and methods of adjusting the pattern to individual needs. Selection and construction of a tailored dress by the use of a commercial pattern.

2 or 102. Design and Construction. (3) W.S. Laboratory hours to be arranged. Prerequisite: Clothing and Textiles 1 or 101. Billings, Potter

An analysis of garment design and personal line and color. Emphasis is placed on fabric and design as it affects the character of the custom. One garment is made.

3 or 103. Spring Wardrobe Building. (2) S. Laboratory hours to be arranged. Prerequisite: Clothing and Textiles 2 or 102. Billings

Selection and construction of the costume ensemble; and study and application of art principles to the selection of the wardrobe. Emphasis upon sewing techniques and short cuts to speed and efficiency. Construction of a summer garment for street, daytime, or evening, and semi-tailored costumes; color harmonies of special interest.

30. Dress Selection and Appreciation. (3) A.W.S. Potter

Selection and purchase of the personal wardrobe. Consideration will be given to the clothing budget, suitability of costume to use, care and repair of the personal wardrobe, good grooming, and relation of clothing to individual success.

Upper Division Courses

110. Children's Clothing. (2) S. (Not given this year.)
A consideration of design and construction of children's clothing suitable to various ages and types with special emphasis on physical and psychological needs of the child as related to clothing.

120. Tailoring. (3) A.W. Prerequisites: Clothing and Textiles 1, 2, and 3 or equivalent. Billings
Tailoring techniques applied to the construction of coats and suits.

125. Family Clothing. (3) S. Billings
Study of the wardrobe needs of the family and problems relating to the purchase, care, and construction of the family clothing. To buy or to sew, a comparison of needs and values with some remodeling of garments to provide basis for comparison.

140. Pattern Design. (3) A. Laboratory hours to be arranged. Prerequisites: Clothing and Textiles 1, 2, 3, and 55. Billings
The principles of draping and dress design, cutting, fitting and finishing. The basic muslin pattern is used to facilitate efficient self-fitting.

141. Historic Costume. (3) W. Billings
Study of period costume as an expression of fashion which reflects the social and artistic life of the time. Emphasis is placed on those phases of costume which provide inspiration for modern design.

142. Costume Design. (3) S. Prerequisite: Clothing and Textiles 171. Billings
Principles and the interpretation of artistic design. Emphasis is placed on creative design by the use of motifs and fashion sources which will aid in development of dress.

160, 161. Advanced Textiles. (2) W.S. (Not given this year.)
History of primitive and modern methods of manufacturing textile fibers. The construction and finish of fabrics and factors influencing the quality and cost.

162. Textile Economics. (2) A.W.S. Prerequisite: Clothing and Textiles 55. Potter
A study of the factors involved in the selection and purchase of clothing with special reference to existing guides and sources of buying information for the consumer-buyer. Field trips to stores and industries.

Zina Young Card Loan Fund. This loan fund was established in 1945 by Thomas N. Taylor as an expression of his regard for Zina Young Card.

Eliza Nicholls Taylor Loan Fund. This loan fund was established in 1945 by Thomas N. Taylor in memory of his mother, Eliza Nicholls Taylor.

Scholarships, Assistantships, and Awards

Graduate Assistantships. A number of departments of the University employ graduate students on a part-time basis. The remuneration varies according to the nature of the work and the training and experience of the applicant.

Students who secure such appointments are necessarily limited in the number of courses for which they may register.

All correspondence with regard to appointments as graduate assistants should be addressed to the Dean of the Graduate School. All applications for scholarships to Brigham Young University should be addressed directly to the Chairman of the Scholarship Committee.

Scholarships to High School Graduates. A scholarship of $25 is available to a worthy member of each graduating class of a number of designated high schools. It is awarded on the basis of scholarship, character, and potentialities for leadership Application should be made through the high school principal to the Chairman of the Committee on Scholarships.

Service Scholarships. The University annually grants many Service Scholarships to students capable of assisting departments with stenographic, clerical, laboratory, and other work. These scholarships afford opportunities to earn tuition and fees while acquiring valuable experience and training under supervision of faculty specialists. Application forms may be obtained from the Chairman of the Committee on Student Employment.

Annual Commercial Contest Scholarships. Scholarships are awarded to winners of specified events in the Intermountain Commercial Contest for high school students held at the University each year.

Speech Tournament Scholarships. The University awards two annual scholarships representing one year's tuition and fees to two high school seniors attaining the highest degree of excellence in

speech achieved in the Brigham Young University Speech Tournament. Character and scholarship record in the high school will also be considered in making the selection.

The Speech Department awards a quarter's free instruction in private speech to the student attaining highest excellence in dramatic art achieved in the Annual Speech Tournament. This private instruction may be taken from any member of the speech department staff.

Journalism Contest Scholarships. Three scholarships are awarded to winers in the journalism contests held in connection with the Annual Intermountain School Journalists' Conference at the University. Any high school or junior college student in attendance at the Conference is eligible to participate.

Provo Business and Professional Women's Club Scholarship. A scholarship of one year's tuition is awarded annually to a Provo girl who has completed her Freshman year and who is financially deserving. A member of the Business and Professional Women's Club acts with the committee which selects the recipient.

KSL Radio Scholarships. KSL of Salt Lake City annually awards two scholarships adequate to pay tuition during the following year at the Brigham Young University. These awards are given to encourage a greater and more professional interest in radio, perfection of the speaking voice, and for radio excellence in vocal and instrumental art. The recipients of the awards are to be selected by the Radio Committee and the Registrar. Actual radio participation will predominate the selections.

Charles E. and Margaret P. Maw Scholarships. Four scholarships of $100 each will be awarded annually to outstanding upper division majors in chemistry.

KOVO Radio Scholarships. Radio Station KOVO awards annually a scholarship covering full tuition and regular student fees. The recipient of this scholarship is selected by the radio division of the Speech Department.

San Francisco Stake Scholarship. The High Priests' Quorum of San Francisco Stake offers annually a scholarship covering one year's tuition and regular fees for a student selected by the quorum from the San Francisco area.

The Nautilus Social Unit Scholarship. The Nautilus of N.L.U. social unit presents an annual scholarship good for one year's tuition to a freshman girl for her sophomore year. The girl is judged on participation in school activities and for academic excellence during her freshman year.

AWARDS

Students eligible for the following awards must be duly registered and carrying successfully at least ten hours of University work.

Provo Chamber of Commerce Efficiency Award. The Provo Chamber of Commerce presents annually a gold watch to the most efficient student of the University. Efficiency is judged on the basis of scholarship, social status, and public service.

Adams Gold Medal. Mr. and Mrs. Walter Adams present annually a gold medal to the most efficient student being graduated from the Music department whose major instrument is a stringed instrument.

Taylor Gold Medal. Taylor Brothers Company presents annually a gold medal to the most efficient student being graduated from the Music department whose major instrument is the piano.

Alpha Kappa Psi Scholarship Award. Alpha Kappa Psi Fraternity awards annually the Alpha Kappa Psi Scholarship Medallion to the male student of the junior class in commerce who possesses the highest scholastic average for three years' work taken in this University.

Dr. Horace G. Merrill Silver Loving Cup is awarded to the student of the University who shall attain first place in the annual Cross Country Run, held immediately preceding the Thanksgiving recess. Should a student win first place more than twice the cup becomes the property of such student.

Woolley Gold Medal. Miss Mary Woolley presents annually a gold medal to the student giving the best rendition of a dramatic reading.

Stein Gold Medal. Mr. J. Edwin Stein offers annually a gold medal for the most efficient athlete. Efficiency is based upon the participation in athletics, scholarship, and social activity.

R. R. Irvine Medal is presented annually for excellence in oratory, subject to be based upon some economic problem.

Class of 1919 Gold Medal is awarded annually for excellence in vocal art.

Noble Medal. Mrs. Hazel Noble Boyack offers annually a gold medal to the most efficient senior student enrolled in the Home Economics department. The selection of such student will be made by the faculty of the Home Economics department.

The Provo Drama Center, Mask Award. An award of $25 is given each year for the best one-act play of merit, on a Western or pioneer theme.

Provo Rotary Club Gold Medal. A gold medal is awarded to the winner of an oratorical contest on some subject of international good will.

Studio Guild Medal. A gold medal is awarded annually by the Studio Guild for the best landscape painting done during the school year in any medium. Members of the Art department faculty and the officers of the Studio Guild make the selection.

Dramatic Service Awards. The Dramatic Art Department awards annually a dramatic honor pin to each of three students who have given the most helpful service to the University and to the community during the year.

Egbert Gold Medal. Miss Anna Egbert gives a gold medal for the most efficient debater each year. The award is made in honor of her father, Robert N. Egbert.

Sigma Xi Award. The Society of Sigma Xi of the University awards annually a gold medal for the best piece of research done during the year by any student of the University.

Oscar B. Young Award. An award of $50 given annually by Professor Kimball Young for the best essay on some phase of Mormon Community Life. The adjudication is under the supervision of the Sociology department.

I. E. Brockbank Award. Isaac E. Brockbank of Provo presents annually a cash award of $25 for the best production in art in any medium.

Delta Phi Fraternity presents annually a gold medal for excellence in extemporaneous speaking.

Tau Kappa Alpha Fraternity presents two gold medals to the winners of the inter-class debate league.

Phi Chi Theta Scholarship Award. Phi Chi Theta awards annually the Phi Chi Theta Scholarship Key to the woman student of the junior class in commerce who possesses the highest scholastic average for three years' work taken in this University and who is majoring in this field.

Elsie Chamberlain Carroll Medal. Mrs. Elsie Chamberlain Carrol presents annually a gold medal to the woman student of the University writing the best short story.

J. Marinus Jensen Medal. Professor Jensen presents annually a gold medal to the man student of the University writing the best short story.

Journalism Awards. Omega Nu, journalism fraternity, fosters annual contests in short story, feature article, essay, verse, and news writing. Awards are donated by members of the Journalism Department faculty.

Graham Journalism Award. Howard Graham annually gives a gold medal to be awarded to a student who has done exceptional journalistic service to the University.

Green Journalism Medal. Forace Green, graduate of the B. Y. U. Journalism Department, annually gives a gold medal to the outstanding Journalism graduate.

Sundberg Award. Mrs. Flora Harvey Sundberg awards annually a cash award to the most outstanding student in Religious Education.

Norman G. Berndt Band Medal. Norman G. Berndt of Salt Lake City annually makes an award to the outstanding band member. This award is based on musicianship, service to the University, and scholarship; and the recipient is selected by the Band Director, the Dean of the College of Fine Arts, and the Registrar.

Arch L. Madsen Award. An award is made each year by Arch L. Madsen, formerly of Radio KOVO, for the most competent student in advertising. The recipient is selected by members of the faculty of the College of Commerce and the staff of KOVO. Service to the University, ability to write advertising copy, and scholarship are bases for selection.

Alumni Award. The Salt Lake City B. Y. U. Dancing Club anually awards a life membership valued at $25 to the valedictorian of the graduating class.

Utah Tax Payers' Association Award. The Utah Tax Payers' Association annually grants an award of $100 to some student to aid in conducting a study in public finance.

Charles E. Maw Award. An annual award given by an anonymous graduate who wishes to express his appreciation to Dr. Maw and the Department of Chemistry. This award consists of a paid membership in the American Chemical Society and a year's subscription to Chemical Abstracts.

Gerald B. Barton Award. A paid membership in the American Chemical Society is given annually by Gerald B. Barton to an outstanding student in chemistry.

Mask Club Award. An award of $25 is given annually to the junior or senior of the Speech Department attaining the highest average in scholarship and excellence in Speech Arts. This award

is given upon registration the following school year. The Dean of the College of Fine Arts and members of the speech faculty make the selection.

Harrison R. Merrill-Utah Magazine Awards. To honor the memory of the late Professor Harrison R. Merrill, the Utah Magazine annually offers three awards of $25 each to be awarded to seniors of Utah high schools who write the best short stories on Western themes. Adjudication is by the Journalism Department faculty.

Margaret Vilate Elliott Awards in Home Economics. Through a provision in the will of Miss Elliott two cash awards of $100 each are offered annually to upper division students who are majoring in Home Economics. The winners of the awards will be designated by the faculty of the department.

Gamma Phi Omicron Sorority Award. The Gamma Phi Omicron offers annually a cash award of $25 to the lower division student in Home Economics selected for the award by the faculty of that department. This cash award is to be applied on the student's tuition for the following school year.

Sears Roebuck Award. A cash award of $50 is given annually by the Provo management of Sears Roebuck & Company to an outstanding upper division major in Commerce. Selection is to be made by members of the department of Commerce.

American Association of University Women Award. The local chapter of this national organization offers annually a cash award of $75 to the outstanding junior girl. This award is to be applied on the student's tuition for the following school year.

L. Wilkins Nuttall Award. An award of $100.00 is presented annually by Dr. L. Wilkins Nuttall to a senior or junior student from the Department of Bacteriology for the outstanding paper presented in the field of Pathogenic Bacteriology. This work may represent original research or a review of recent work in the field.

Student Employment

The chairman of Student Employment assists worthy students in finding employment. This includes assistance not only in placing students in positions within the University campus, but also in finding part-time employment in off-campus jobs and work for board and room. Students are not encouraged to attempt to earn their entire way through school, since this ordinarily takes too much time from their studies. (See Scholarships.)

Student Health Services

Upon entering Brigham Young University, each regular student shall pay a Health Fee of $3.50 per quarter.

Student Health Fees shall be used by the University for required pre-admission and re-admission physical examinations; follow-up examinations; health guidance; care of minor illnesses and injuries of ambulatory nature; and such surgery and hospitalization as shall be designated from time to time by the University Committee on Student Health.

Student Housing

Residence halls, providing healthful and congenial living quarters for both men and women students, will be available on a cooperative basis.

Allen Hall for men and Amanda Knight Hall and Campus Hall for women provide every modern convenience. All accommodations are furnished, including furniture, bedding and linen. Additional dormitory units are now under construction. Applications to live in any of the school residence halls should be filed with the Chairman of Student Housing before the opening of school, and should be accompanied by a deposit of $10. If the student decides later not to enter the University, the deposit fee will be returned, provided notification has been given ten days before the opening of the term.

Wymount Village, completed during the school year 1946-47, provides housing for 300 single and 200 married veterans.

Board and room in private homes costs from $8.00 to $11.00 per week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board.

If students desiring assistance will call at the office of Student Housing when they arrive in Provo, they will be furnished lists of available living quarters. When students desire to change living quarters, they are expected to call on and notify the Chairman of Student Housing.

The University insists that men and women be housed separately. The boarding houses are inspected to see that accommodations are satisfactory. The University maintains two cafeterias where students may secure meals at cost.

Student Organization

Student Organization is designed to offer students maximum opportunity for training in leadership and self government and to promote participation in professional, academic, and scholastic association, and to provide a well balanced social and cultural program for the entire student body. In order to coordinate the activities of the many organizations, to eliminate duplication of effort, and to lend continuity from year to year, all student organizations are supervised by the Dean of Students through the office of the Coordinator of Student Organizations.

To hold office in any student organization or to participate as an active member of any social organization, a student must show for the previous grade period at least 12 hours of academic work with above "C" (1.1) grade average with no more than 5 hours of "D" grade. In exceptional cases, where the best interest of the student would be served, this requirement may be modified by the faculty Committee on Special Services. Membership in service, departmental and professional, and religious organizations will be governed by eligibility regulations set up by such organizations, except that only those students actually registered for ten or more hours may hold active membership.

General Student Organizations

Associated Students. This organization is composed of all students who attend Brigham Young University, and is presided over by officers elected by them. It seeks to develop interest on the part of every student in all those activities which contribute to a more democratic "Y" spirit, and to provide opportunities for all students to participate in a well-rounded extra-curricular program. Through this organization, student traditions are kept alive. All interclass and intercollegiate activities are encouraged and unified by this organization. Social, forensic, dramatic, and music activities are fostered under its management and through it the students publish student periodicals; the "Y" News (weekly); and the University yearbook, the "Banyan." The organization also functions as an auxiliary of university discipline.

Class Organizations. Members of the four classes and the graduate school are organized for the purpose of developing common interests and class spirit as the class proceeds through the university and into the Alumni Association. Meetings of the classes are held periodically with a limited number of social functions planned by class officers under the direction of the Student Body Council.

Associated Men.....All men students registered are members of the Associated Men. The organization is designed to promote specific interests of "Y" men and to foster a wholesome masculine atmosphere on the campus. The executive council, consisting of three student leaders and a faculty counselor, supplemented by the twelve members of the "Y" men's council, forms the governing group.

Associated Women. This is an organization comprising all women registered in the University. Its purpose is to aid and foster all women's activities. This organization is advised by the Counselor for Women and is a member of the Western Division of the National Organization of Associated Women Students, which includes practically all of the universities and colleges in the United States.

Council of Student Organizations. This council works under the direction of the officers of the Associated Students and the Coordinator of Student Organizations. It is composed of representatives from the various organizational groups; for example, social, service, departmental, professional, and honorary. The President of the Associated Students, or his representative, presides over this council at its regular meetings. Since all student organizations are represented on this council, it becomes the ultimate student coordinating body for student organizations.

Service Organizations

White Key. Women's honorary organization installed on the campus in 1933. Membership consists of girls outstanding in scholarship, initiative, and ability to serve. Its purpose is to foster university activities of merit and to render service to the associated students.

Blue Key. The Blue Key national honorary leadership fraternity was chartered at the Brigham Young University in the Spring of 1932. Its purpose is to foster Student Body projects of merit which cannot well be handled by any other organization. It is an upper-classmen organization, the membership of which is fixed at from twelve to twenty active members.

Intercollegiate Knights. National Underclassman's Service Fraternity. It is designed to promote and foster felowship, school activities and traditions, as well as inter-school friendship. Special duties include the lighting of the "Y" on the mountain, from which it derives the name of the Gold "Y" Chapter, sponsoring rallies, contests, and meets. Membership is based on activity and scholarship.

Y Calcares. A service organization for Sophomore girls. Membership may include Freshman girls of each spring quarter who have outstanding qualifications in scholarship, participation in school activities, and interest in the school affairs. Works with other service organizations on the campus.

Social Organizations

The University recognizes proper social development as one of the important products of college training. To provide for this type of experience, various social organizations are encouraged on the campus. It is expected that the spirit and ideals of the University will be fostered and that a democratic spirit will prevail in all social activities.

Social Units. Men's and women's social units accept as members the maximum number of students compatible with the idea of close friendship and congenial activity, founded on a common social interest. Supervision and assistance are furnished the units by faculty sponsors chosen by the units and acting in conjunction with the Coordinator of Student Organizations. The Inter-Social Unit Council, made up of representatives from each Social Unit, has directive power over the internal affairs of each unit and has the responsibility of promoting wholesome social activity and maintaining the high standard of the University among groups under its jurisdiction.

Lambda Delta Sigma. Lambda Delta Sigma, which operates under the general supervision of the coordinator of student organization, is a national organization of students having as its objective the fostering of religious, cultural, intellectual, and social ideals. It is sponsored by the Church Department of Education and at present extends to sixteen Western colleges. Its membership is open to all college students who desire to maintain Latter-day Saint standards of living. It is directed by an executive council through which all chapters operate. This fraternity is very active on the "Y" campus, with seventeen chapters now functioning.

Representatives from Lambda Delta Sigma chapters meet with representatives from the social units periodically in a "Social Council" to take appropriate action and make recommendations in regard to the social activities of organization and the general student body.

Geographical Clubs. These clubs are organized to further social enjoyment and acquaintance among students from the same localities. They are particularly helpful to students during the early quarters of school before these students have found

their way into the other social life of the campus. Such clubs are also helpful in maintaining a close bond of interest between the student and his home.

Scholastic, Professional, and Departmental Organizations

The University encourages organizations which have the specific purpose of bringing together persons of similar scholastic and professional interests and of rendering their work more pleasurable and profitable. Each group fosters the activities of the department to which it is allied. Eligibility requirements are those of departmental affiliation and general scholarship as determined by the individual organizations. Fees are reduced to a minimum. Each organization has a faculty adviser.

Phi Eta Sigma. A national scholastic fraternity, organized to promote a higher standard of learning and to encourage high scholastic attainment among freshman men.

David Starr Jordan Biology Club. This club aims to develop interests in all forms of biological study and has, for its major project, the building of a library of natural science literature. Some 500 volumes have been collected by club members. The increasing animal and plant collections of the department and the laboratory at Utah lake offer interesting materials for new students. Besides resident students, the membership includes faculty members, alumni and prominent townspeople.

Drama League. The purpose of this league is to foster the art of reading and dramatics, to appreciate paintings and music, and to give opportunity to its members to hear lectures and readings from the best talent of the state as well as from performers who are on the lecture platform and the stage. The society meets weekly. It is affiliated with the Drama League of America.

Foreign Language Clubs. Teachers and students interested in the study of French, Spanish, German, Portuguese, or Latin are organized into clubs. These clubs meet twice a month and enjoy programs of songs, talks, reports, games, etc., in which the foreign languages are the medium of speech. Membership is open not only to students but also to all people within easy reach of the University who have studied or are studying the modern languages. Membership privileges are especially extended to people of the community of French, German, Spanish, or Spanish-American birth.

Gamma Phi Omicron. (Home Economics.) An organization of the advanced students majoring in some phase of Home Economics. Its purpose is to develop culture and scholarship among its members, and to lend its aid in establishing better homes and community life.

Home Economics Club. The club is intended to create a professional spirit among students of Home Economics. Regular meetings are held at which interesting lectures are given. Special activities are fostered. All girls registered in Home Economic courses are eligible for membership.

Graduate Club. This club is an organization of the students of the University who are pursuing graduate study. The purpose of the organization "shall be to foster fellowship among its members; to stimulate a desire for higher learning; to assist in finding and developing leadership in the communities; and to use every effort to enhance the interests of Brigham Young University." A student becomes a member automatically upon registration in the graduate school.

"Y" Psychological Society. An organization to foster a better understanding of scientific psychology, and to supplement the regular courses of the department by affording the opportunity of discussing certain current problems by advanced students and outside speakers.

The "Y" Chemical Society. An organization consisting of students interested in the field of chemistry. Meetings are held every alternate week, at which time lectures dealing with the outstanding problems in chemistry, or material intimately connected with this field are given by authorities on the specific subjects. Various excursions to the outstanding institutions of scientific value and interest in the state are sponsored.

International Relations Club. The purpose of this club is to stimulate interest in a clearer understanding of international problems and to develop a spirit of world helpfulness and peace. The club is sponsored by the Carnegie Endowment for International Peace.

Omega Nu. The Omega Nu honorary journalism fraternity was founded in the autumn of 1935 to stimulate interest in journalism and to promote higher standards in the field.

Theta Alpha Phi. National professional dramatic fraternity. Co-educational. The Utah Beta Chapter was installed at this institution in 1924. The purpose is to foster artistic achievement in all of the arts and crafts of the theatre.

Alpha Kappa Psi. (Beta Delta Chapter.) A professional commerce fraternity, the purpose of which is to foster studies in commerce, encourage scholarship and association between members and the commercial world. Male College of Commerce students are eligible for membership.

Beta Beta Beta. (Phi Chapter.) Installed January 31, 1931. An international honorary biological fraternity, which emphasizes a three-fold program: Sound scholarship; dissemination of scientific knowledge; and promptness of biological research. All junior and senior students having twenty-four hours of biological credit are eligible for membership.

Sigma Pi Sigma. A national honorary Physics Society with the following objectives: (1) to stimulate high scholarship, (2) to create an interest in research and the advanced study of physics, and (3) to encourage friendship among the majors in the department. Installed May 2, 1936.

Tau Kappa Alpha. Honorary national debating fraternity. Those who engage in inter-collegiate debating and oratory or who attain marked distinction in forensic activity are eligible to membership.

Phi Chi Theta. (Psi Chapter.) Installed March 12, 1938. A women's national professional fraternity. The purposes and objectives for which this fraternity is organized are to promote the cause of higher business education and training for women, to foster higher ideals for women in business careers, and to encourage fraternal cooperation among women preparing for such careers.

Religious Organizations

Delta Phi. A national honor fraternity whose membership on the "Y" campus is elected from those who have served as missionaries for more than six months. Its purpose is to foster spiritual activity, high ideals, fellowship and sociability. Regular programs and lunches are conducted during the school year at which men of the Church and state are the principal speakers. The "Y" chapter is associated with like chapters at the Utah State Agricultural College and the University of Utah.

Beta Pi. An honorary fraternity for returned women missionaries on the "Y" campus. Its purpose is to provide an opportunity for association of women missionaries in cultural, spiritual, and social activities, thereby maintaining the missionary spirit.

Many interesting and worthwhile activities are carried on during the school year.

Non-Student Organizations

B. Y. U. Women. The purpose of this organization is to foster the ideals of the institution and to help furnish recreation and social amusement for the faculty. A woman is eligible for membership in this organization and becomes a member on payment of dues provided that at the time she seeks admission she is either: (1) a present faculty member (a faculty member is one who holds at least the rank of instructor); (2) a past faculty member; (3) a matron; (4) a board member, (5) the wife of a faculty member who has died in the service of the school; (6) the wife of a present faculty or board member.

Faculty Fine Arts Club. This club is organized to develop and maintain a closer cooperation among the members of the fine arts faculty; to increase the appreciation of each member for all arts; to keep the members aware of what is going on in the various fields of fine arts; and to encourage among the members original creations in music, literature, painting, etc.

Alumni Association

The BYU Alumni Association was organized in 1893.

The purposes of the organization are to promote the general welfare of the university; to create and maintain an active interest among alumni members and friends in extending the influence of the university; to provide means of perpetuating friendships among alumni; to initiate and support activities which will further the interests of the university, its students and its alumni; and to aid the university in providing facilities to meet the educational and spiritual needs of the membership of the Church of Jesus Christ of Latter-day Saints.

Membership is extended to those who have attended the University for one or more terms; or who have supported it with substantial contributions of time, money or property, or who are serving as general authorities, stake presidents, or president of foreign missions of the Church of Jesus Christ of Latter day Saints.

Annual dues, at the present time, are $2.00.

Life membership, $25. Life Memberships may be paid in installments of $5 per year for 5 years; combined Life Memberships for husband and wife are $35 and may be paid in installments of $7 per year.

All Alumni Members receive copies of the Brigham Young Alumnus, official publication of the association.

The governing body of the association is the Alumni Council. This Council is composed of 18 Councilors at large, six of whom are elected annually by members of the association: 37 Regional Councilors appointed annually by stake presidents on a regional basis and by stake presidents outside the regional organizations; and approximately 40 Ex-officio Councilors.

The Executive Committee of the Alumni Council and its officers are elected annually by the Alumni Council on Alumni Day, for a term of one year. A full-time Executive Secretary-Treasurer, nominated by the Executive Committee, is appointed by the Board of Trustees of the University, for an indefinite period. Dr. Harold Glen Clark is the present Executive Secretary-Treasurer of the Brigham Young University Alumni Association.

BYU Alumni Clubs have been organized throughout the country and are carrying on active programs. The association has assumed the project of arousing interest in and raising funds for a Student Union Building to be built on the Y Campus. The building will house student body offices, alumni headquarters, cafeteria, bookstore, and recreational facilities.

Religious Opportunities

Brigham Young University students have excellent opportunities for participation in religious activities. Among the organizations which make this possible are the following:

University Assemblies. Instructive programs are offered at regular assembly periods each week during the year.

University Sunday School. This organization convenes every Sunday morning during the school year. Its purpose is to give opportunity for worship and Sunday School experience, and training for Church leadership. It is intended primarily for students of the University who are away from their home wards. The Sunday School is officered by students. Teachers are selected from the University Faculty.

Church Services. The various wards in Provo welcome students to their regular Sunday Services.

Sunday Evenings in the Joseph Smith Building. Each Sunday evening at 8:30 o'clock the Lambda Delta Sigma Organization provides a program of activities consisting of: fireside chats, discussion groups, review of Latter-day Saint Church books, music appreciation, study of Latter-day Saint missions. All students are invited. Lambda Delta Sigma conducts its functions within the established program of the Coordinator of Student Organizations.

Lyceum Course

Since 1883 the University has brought to its students distinguished men and women in arts and letters. During the past year the following appeared:

Carlos Alexander (Summer).....Baritone
One concert and one appearance with Frances Watkins

Salvatore Baccaloni.....Basso Buffo, Metropolitan Opera Association

(Bach) St. Matthew Passion.....(Summer)
Carlos Alexander, Conductor

Beverley Baxter.....Member of Parliament

Joe Callaway.....Actor, Critic, Dramatist

Claire Coci.....Organist

Columbia Opera Quartet.....Phillips, Hain, Olheim, Kent

English Duo.....Viola Morris and Victoria Anderson
Soprano and Contralto

James Friskin.....Pianist

Carl Fuerstner (Summer, two concerts).....Pianist

Miklos Gafni.....Hungarian Tenor

Dr. C. J. Hambro.....Head of Norwegian Parliament

Grant Johanessen.....Pianist

Louis Kaufman.....Violinist

Los Angeles Philharmonic.....Alfred Wallenstein, Conductor
(Summer, eight concerts)

H. S. Marchant.....British Consulate

Benno Moiseiwitsch.....Pianist

(Mozart) Abduction from the Seraglio.....(Summer)
Carlos Alexander, Conductor

Ricardo Odnoposoff.....Violinist

The Paganini Quartet.....Temianka, Rosseels, Courte, Maas
(Two concerts)

The Pascal Quartet from Paris.....Dumont, Pascal, Crut, Salles
(Two concerts)

180. Home Furnishings. (2) A.W.S. Limited to ten students. Potter

Materials, construction processes, and selection of furnishings for the home.

190. Special Problems. (2) A.W.S. With advice of instructor. Billings

195. Seminar. (2) (Time to be arranged.) Potter

Graduate Courses

201. Selection and Construction. (3) (Not given this year.)

202. Design and Construction. (3) (Not given this year.)

240. Pattern Design. (3) (Not given this year.)

260, 261. Advanced Textiles. (3) (Not given this year.)

262. Textile Economics. (3) (Not given this year.)

Foods and Nutrition

Foods and Nutrition 10, 11, 12, 125, 150, 153, 154, 155, 156 are required of all who major in Foods and Nutrition. Other additional hours are elective with the advice of the major professor. Chemistry 7, 8 and 9 or equivalent are required.

Lower Division Courses

9. Meal Service. (2) S. Barlow

A non-laboratory course including a study of the factors involved in various types of meal service. Includes demonstrations and discussion.

10, or 110. Introductory Foods. (3) A.W.S. Two lectures and two two-hour laboratory periods per week. Barlow, Romney

Principles involved in the cookery of foods for family meals.

11 or 111. Menu Planning and Meal Service. (3) W. S. Two lectures and two two-hour laboratory periods per week. Prerequisite: Foods and Nutrition 10 or 101. Barlow, Romney

Experience is given in menu planning, food buying and meal service of various types.

12 or 112. Advanced Food Preparation and Preservation. (3) S. Two lectures and two two-hour laboratory periods per week. Prerequisites: Foods and Nutrition 10 and 11, Chemistry 7 and 8, or equivalent. Barlow

A study of factors affecting the preparation and preservation of standard food products from the experimental viewpoint.

25 or 125. Food Economics. (3) A. Romney

Food purchasing as affected by markets, advertising, brands and other factors. (Field trips Friday.)

50. Elementary Nutrition. (3) A.W.S. Required of students majoring in vocational Home Economics. Barlow

The study of the fundamentals of nutrition and the use of the diet in maintaining physical fitness. Open to men and women.

52. Diet for the Family. (2) S. Required of students majoring in vocational Home Economics. Prerequisite: Foods and Nutrition 50. Barlow

An application of nutrition principles to meet the food needs of the family.

Upper Division Courses

109. Chemistry of Foods. (5) S. Bryner

(See Chemistry 109.)

150. Large Quantity Cookery. (5) A.W.S. Limited to six students each quarter. Prerequisites: Foods and Nutrition 10, 11, and 12, or equivalent. Jorgensen

Practical experience in the preparation of food, management, large quantity marketing, and simple accounting applied to the institutional field.

151. Institution Management. (5) S. Lectures, Field trips, and practical experience to be arranged. Prerequisites: Foods and Nutrition 25 and 150. Jorgensen

152. Nutrition for Children. (3) A. (Not given this year.)

Nutritional requirements and feeding problems of pregnancy, infancy, and pre-school child.

153. Nutrition. (4) A. Three lectures and one three-hour laboratory period per week. Prerequisites: Chemistry 9 and Foods and Nutrition 12 or equivalent. Barlow

A study of fundamental principles of Nutrition and their relation to health and growth.

154. Dietetics. (4) W. Three lectures and one three-hour laboratory period per week. Prerequisites: Chemistry 9 and Foods and Nutrition 153. Barlow

A study of the requirements of normal individuals and calculation of dietaries to meet these needs.

155. Nutrition in Disease. (4) S. Three lectures and one three-hour laboratory period per week. Prerequisites: Foods and Nutrition 153 and 154. Barlow

This course deals with the value of food in maintaining health. Emphasis is placed on special diets for different diseases.

156. Readings in Nutrition. (2) W. Required of all senior students majoring in Foods and Nutrition. Barlow

Graduate Work

250. Large Quantity Cookery. (5) (Not given this year.)

253. Nutrition. (4) A. Barlow

254. Dietetics. (4) W. Barlow

255. Nutrition in Disease. (4) S. Barlow

256. Readings in Nutrition. (2) W. Barlow

HOUSEHOLD ADMINISTRATION

Household Administration 80, 160, 161, 163, 164, 165, 166, 181 and 182 are required for all students who major in Household Administration. Other additional hours are to be elected with advice of the major professor. Chemistry 7, 8, and 9 or equivalent, and art 10, 14 and 62 are required.

Lower Division Courses

5. Introduction to Home Economics. (1) A. Required of all Freshmen majoring in home economics. Warnick

Designed to orient beginning students in the field of Home Economics. Vocational opportunities for women trained in home economics are investigated.

10 or 110. Introductory Foods. (3) A.W.S. Barlow, Romney

(See Foods and Nutrition 10 or 110.)

25. Food Economics. (3) A. Romney

(See Foods and Nutrition 25.)

50. Elementary Nutrition. (3) A.W.S. Barlow
(See Foods and Nutrition 50.)

52. Diet for the Family. (2) S. Barlow
(See Foods and Nutrition 52.)

55. General Textiles. (3) A.W.S. Potter
(See Clothing and Textiles 55.)

58. Upholstering and Seat Weaving. (2) A.W.S. Gamet
(See Mechanics 28.)

60. Household Problems. (2) A.S. Warnick
This course will present the most important problems in the organization and management of the household.

64. Housing I. (2) W. Warnick
Family problems involved in planning, financing, and equipping a house.

65. Family Relationships I. (2) W. Romney
Relationships among family members and factors affecting them. Open to all students.

80. Family Health and Child Care. (3) A.W.S. Warnick
Causes and control of disease; basic facts concerned with the promotion and maintenance of family health; problems relating to reproduction and individual health; home care of the sick.

81 or 181. Child Development. (3) A.W. Warnick
Various patterns and stages of growth and learning are studied; home influence in the care and guidance of children; observation of the pre-school child.

82 or 182. Observation of Children. (2) S. Prerequisite: Household Administration 80 or 181 or equivalent. Warnick
Observation and study of the pre-school and school child. Philosophy underlying nursery school education and its application to the human situation.

Upper Division Courses

115, 116, 117. Interior Decoration. (3) A.W.S. Larsen
(See Art 115, 116, and 117.)

118. Home Furnishings. (2) A.W.S. Potter
(See Clothing and Textiles 180.)

122. Child Psychology. (3) W. Poulson
(See Psychology 122.)

125. Mental Hygiene. (3) S. Poulson
(See Psychology 123.)

160. Equipment. (3) S. Romney
A study of electrical and non-electrical equipment for the home. Fundamental factors determining selection and use and care. Open to men and women students.

161. Family Finance. (3) W. Warnick
Study of those economic problems most directly concerning the family of today; discussion of family income, its size, sources, adequacy; income apportionment and expenditure. For men and women students.

162. Textile Economics. (3) A.W.S. Potter
(See Clothing and Textiles 162.)

163. Consumers and the Market. (2) A. Warnick
An analysis of the economic position of the consumer as a buyer; organization and function of the market price policies, selling methods in the retail market, retailing activities and their costs, and market control through legislation. Open to men and women students.

164. Housing Problems II. (3) A. Warnick
The social, economic, and functional aspects of housing; Federal legislation and organizations promoting better housing; the family dwelling from the standpoint of family needs and interests. Open to men and women students.

165. Family Relationships II. (3) S. Warnick
Present social and economic factors affecting the family of today. Responsibilities and contributions of family members; analysis of relationships which make for satisfactions in family life.

166. Home Management. (3) S. Warnick
An analysis of the problems involved in the efficient management of family resources and household tasks and the relation of management to the personal aspects of family life.

166b Home Management House. (3) (Not given this year.)

171. Philosophy and Historical Development of Home Economics. (2) S. Requires the completion of one summer project. Romney

The historical development, growth, present scope, and trend; objectives of home economics education; its organization and relationship to the present educational setup.

172. Methods of Teaching Home Economics. (2) A. Romney

Teaching methods as applied to home economics curriculum content, equipment and teaching facilities; laboratory arrangement and management.

173. Special Problems in Teaching Home Economics. (1) S. For all Senior majors who are qualifying for a teaching certificate. Warnick

Graduate Courses

261. Family Finance. (3) W. Warnick

264. Housing Problems. (3) A. Warnick

266. Home Management. (3) S. Warnick

273. Special Problems. (1) S. Warnick

281. Child Development. (3) W. Warnick

282. Observation of Children. (2) S. Warnick

Horticulture and Landscape Architecture

Professors Daines, Snell; Mr. Reimschiissel

HORTICULTURE

Students majoring in this department may emphasize either Pomology, Vegetable Production, or Ornamental Horticulture with Landscape Architecture. They must have a strong foundation in Botanical Science.

Lower Division Courses

1. Principles of Pomology. (3) A. Reimschiissel

The principles underlying profitable orchard management will be studied.

5. Herbaceous Plants. (2) A. (Not given this year.) Reimschiissel

Autumn blooming herbaceous plants are studied. See Land. Arch. 5.

6. Herbaceous Plants. (2) S. (Not given this year.) Reimschiissel

Spring blooming herbaceous plants are studied. See Land Arch. 6.

7. Floriculture. (3) A.S. Reimschiissel

Herbaceous plant culture in the greenhouse and out-of-doors are studied.

8. Trees and Shrubs. (2) A. Reimschiissel

Identification and culture of native and cultivated trees and shrubs used for landscape effect are studied. Emphasis placed on autumn and winter characteristics and effects.

9. Trees and Shrubs. (2) S. Reimschiissel

Emphasis placed on identification and culture of trees and shrubs, their spring and summer characteristics and effects.

11. Plant Propagation. (5) S. Three lectures and two two-hour laboratory periods per week. Reimschiissel

The methods of plant reproduction used in greenhouse and nursery practice are studied.

Upper Division

152. Systematic Pomology. (2) W. Prerequisite: Horticulture 1, Botany 3. Daines

Emphasis placed on the identification, description and nomenclature of fruits and fruit trees.

155. Orchard Practice. (1) S. Prerequisites: Horticulture 1, Reimschiissel

Emphasis on spraying, pruning, and planting.

156. Nursery Practice. (1) S. Reimschiissel

158. Weeds and Seed Analysis. (4) A. Reimschiissel

The important weeds occurring in Utah and their control. Seeds likely to occur in commercial seed.

159. Genetics. (3) W. Prerequisites: Bontany or Zoology 11. Daines

Methods of hybridizing and selection in relation to plant improvement are studied.

167. Marketing Fruits and Vegetables. (3) W. Staff

170. Plant Pathology. (5) A. Prerequisite: Botany 1. Daines
This course deals with the important diseases of cultivated plants, their identification, causes, and methods of control.

191, 192, 193. Seminar. (1-1-1) A.W.S. Required of all majors. Staff

LANDSCAPE ARCHITECTURE

Lower Division

1. Elementary Landscape Architecture. (3-3-3) A.W.S. Reimschiissel
Principles of design and composition as applied to landscape architecture with emphasis on home ground development. A foundation to all courses in landscape architecture.

5. Herbaceous Plants. (2) A. (Not given this year. Reimschiissel
(See Horticulture 5)

6. Herbaceous Plants. (2) S. (Not given this year.) Reimschiissel
(See Horticulture 6.)

7. Florticulture. (3) A. S. Reimschiissel
(See Horticulture 7.)

8. Wood Plants. (2) A. Reimschiissel
(See Horticulture 8.)

9. Woody Plants. (2) S. Reimschiissel
(See Horticulture 9.)

24. Landscape Design. (3) W. Prerequisite: Landscape Architecture 1. Reimschiissel
The design of gardens and private grounds on flat surfaces. A fundamental course to all landscape design.

25. Landscape Design. (3) S. Prerequisite: Landscape Architecture 24. Reimschiissel
Designing private and public grounds.

43. Architectural Drawing. Snell
(See Drawing 43.)

44. Architectural Drawing. Snell
(See Drawing 44.)

Industrial Arts

Professors Snell, Larsen; Mr. Gamett

Credit in shop courses in Mechanics is given on the basis of three hours for nine hours' application each week during the quarter.

MECHANICS

Lower Division Courses

1. Ornamental Iron Work. (2) W. Two two-hour periods per per week. Staff

Craftsmanship in wrought iron. Designing, cutting, sawing, bending, hammer finishes, etc.

4. Sheet Metal. (2) A. Prerequisite: Drawing 65. Two two-hour periods per week. Staff

Projects in sheet metal work and pattern layout involving fundamental machine and hand tool operation.

6. Plastics. (2) A. Two two-hour periods per week. Staff

Fundamental hand and machine operations used in working plastics. This course is designed to meet teaching requirements of the industrial arts program.

10. Machine Practice. (3) A.W.S. Three two-hour periods per week. Staff

The use of hand tools in bench work, with lathe, drill press, and grinding operations.

20. Tool Technique. (2) A.W.S. Daily. Gamett

Sharpening, care, and use of woodworking hand tools applied in fundamental principles of sawing, joining, fitting and fastening. Required of all majors in industral arts.

21. Wood Turning. (2) A.W.S. Daily. Gamett

Exercises and projects in spindle and face plate turning.

23. Pattern Making. (2) A.W.S. Daily. Prerequisites: Mechanics 20 and 21. Gamett

The principles of pattern making are taught through the making of simple patterns for machine parts.

26. Wood and Metal Finishing. (2) S. Two two-hour periods per week. Gamett

Preparation of surfaces for the application of finishes. Staining, painting, varnishing, lacquering, polishing, etc. Use of brush and air gun.

28. Upholstery. (2) Two two-hour periods per week. Gamett

Typical forms of upholstery, including foundations with and without springs.

30, 31 32. Cabinet Construction. (3-3-3) A.W.S. Three two-hour periods per week. Prerequisite: Mechanics 20. Gamett

Use of hand and machine tools in the construction of fine furniture. Drawings, specifications and cost estimates of all projects must be submitted.

Upper Division Courses

100. Art Metal Crafts. (2) W. Prerequisite: Drawing 40. Two two-hour periods per week. Staff

Projects in metal hand tooling in brass, copper, and aluminum. soldering and spinning.

120. Standard Construction Methods. (3) A. Gamett

This course deals with the theoretical aspects of building, location, soil conditions, footings, material, and equipment.

121. Carpentry. (3) W. Three two-hour periods each week. Prerequisites: Mechanics 20 and Drawing 45. Gamett

Through drill in saw filing. Tool practice applied in practical problems. Fitting and hanging door and windows, built-in cabinets, stair construction and framing.

122. Estimating. (3) S. Prerequisite: Drawing 45. Staff

Interpretating of plans and specifications. Methods of estimating and figuring costs of materials and labor.

123. Mill Work-Woodworking Machinery. (3) W. Three two-hour periods per week. Prerequisites: Mechanics 20 and Drawing 45. Gamett

Work will be handled as nearly as possible in actual practice. Estimates and working drawings will be made and a careful check of material and labor kept and computed for each job.

124, 125, 126. Shop Work. (3-3-3) A.W.S. Three two-hour periods per week. Prerequisites: Mechanics 120, 122. Gamett

Advanced work, consisting of the erection of buildings, cabinet work, upholstery, pattern work or novelty work.

DRAWING

Lower Division Courses

40. Theory and Practice of Design. (2) A.W.S. (See Art 10.) Staff

42. Free-hand Lettering. (2) A.W.S. Two two-hour drawing periods per week. Snell

Practice in lettering as applied in engineering and architectural drawing.

43. Architectural Drawing. (2) A.W.S .One lecture and two two-hour drawing periods per week. Snell

The care and use of instruments, lettering, applied geometry, and orthographic projection. A beginning course for students interested in architectural drawing.

44. Architectural Drawing. (2) A.W.S. One lecture and two two-hour drawing periods per week. Prerequisites: Drawing 63, 64 or equivalent. Snell

Drawing of architectural details of footings, walls, doors, windows, cornice, etc.

45. Architectural Drawing. (2) A.W.S. One lecture and two two-hour drawing periods per week. Prerequisite: Drawing 44 or equivalent. Snell

Small house plans, elevations, sections, and details.

46. Descriptive Geometry. (2) A. Snell

(See Engineering 66.)

47. Instrumental Perpective. (2) A. Two two-hour drawing periods per week. Prerequisite: Drawing 45. Snell

The theory and application of methods of drawing architectural perspectives.

48. Shades and Shadows. (2) W. Two two-hour drawing periods per week. Prerequisite: Drawing 47. Snell

49. Rendering. (2) Two two-hour drawing periods per week. Prerequisite: Drawing 48. Snell

Wash rendering practice plates, and rendering of architectural elements.

50, 51, 52. Architectural Design. (2-2-2) A.W.S. Two two-hour periods per week. Prerequisites: Drawing 40 and 49. Snell

A series of order problems involving the study of the principles of composition. Problems similar to Class B Analytiques of the Beaux-Arts Institute of Design will be followed.

Upper Division Courses

140, 141, 142. Architectural Design. (2-2-2) A.W.S. Two two-hour drawing periods per week. Prerequisites: Drawing 47, 48, 49 or equivalent. Snell

Original design by the student. Problem to be passed upon by instructor. Complete set of plans with one display drawing of problem chosen.

ENGINEERING

Lower Division Courses

63. Engineering Drawing. (2) A. One lecture and two two-hour drawing periods per week. Staff

Care and use of instruments, lettering, applied geometry, and orthographic projection. A beginning course.

64. Engineering Drawing. (2) One lecture and two two-hour periods per week. Prerequisite: Drawing 63 or one year of high school drawing. Staff

Revolutions, true lengths, sections, fastenings and fittings.

65. Engineering Drawing. (2) S. One lecture and two two-hour drawing periods per week. Prerequisite: Drawing 64. Staff

Assembly and detail drawings, developments, transition layouts and pictorial views.

66. Descriptive Geometry. (3) A. One lecture and three two-hour drawing periods per week. Prerequisite. Drawing 65 or 45. Snell

A study of the principles relating to point, line, plane, cylinder, cone and double curved surfaces of revolutions; true lengths and surfaces, etc., with application to practical problems. Required of all engineering students, industrial arts majors, and minors in drawing.

67. Topographical Drawing. (2) S. Two two-hour drawing periods per week. Prerequisite: Drawing 43 or 63. Snell

Elementary work in topographical symbols, mapping, and plotting.

68. Elementary Machine Design. (2) S. Two two-hour drawing periods each week. Prerequisite: Drawing 66. Staff

Machine fastenings, technical sketching, working drawings, detailing, jigs and fixtures.

70. 71, 72. Elementary Surveying. (2-2-2) A.W.S. One day per week from one to five o'clock. Prerequisites: Trigonomentry and Drawing 65. Snell

Upper Division Courses

163. Geology of Ground Water. (5) A. Daily. Staff
(See Geology 185.)

College of Arts and Sciences

Carl F. Eyring, Dean

The primary purpose of the College of Arts and Sciences is to meet the needs of students who desire a broad and liberal education that will enable them to find and take their places in the complex civilization of today. Abundant opportunity is provided for those who have ambition for speciliazed study in engineering, medicine, or law, or for those who desire to train for religious, political, or social leadership. Preparation for original investigation in the fields of this college is emphasized. Students who wish to build a foundation for advanced degrees will find this college rich in opportunity.

Lower Division Registration

Before entering this college, a student will have been oriented into a field of study by the Counseling Service, which is organized to offer special guidance to beginning students. But in order that he may continue to receive adequate guidance in the selection of a course of study, faculty advisors have been selected to give assistance according to the following plan.

DIVISIONAL REGISTRATION

Many students wish to explore the fields of learning to gain not only a breadth of training but also the information needed in the selection of a life's work. To meet this need an opportunity is given for guidance in these broad areas of instruction.

Biological Science Division. For students with special interests in bacteriology, botany, psychology, and zoology.

Physical Science Division. For students with special interests in chemistry, geology, geography, mathematics, and physics.

Social Science Division. For students with special interests in history, archaeology, poltical science, sociology, and economics.

Language Division. For students with special interests in English, journalism, and modern and classical languages.

DEPARTMENTAL REGISTRATION

Certain lower division students may have decided on a definite career and may wish to register from the beginning in a specific department. If so, they may choose from among the following departments in the College of Arts and Sciences: Archaeology, Bacteriology, Botany, Chemistry, English, Geology and Geography, History, Journalism, Mathematics, Physics, Political Science, Psychology, Modern and Classical Languages, Sociology, and Zoology and Entomology.

PRE-PROFESSIONAL REGISTRATION

The College of Arts and Sciences offers pre-engineering, pre-medical, and pre-legal courses. Students desiring to register in these fields should make use of the guidance here offered.

PRE-ENGINEERING COURSE

Advisers: George H. Hansen, Wayne B. Hales, William H. Snell

A two-year pre-engineering course is outlined below. This course presupposes that a student has credit in the following high school courses: 3 semesters of algebra, 2 semesters of plane geometry, one semester of solid geometry, 2 semesters of chemistry, and 2 semesters of physics. If a student is lacking in any of these subjects, he may be expected to make up the deficiency by electing such courses as Mathematics 1, Mathematics 3, Chemistry 3, and Physics 1 and 2, and by spending approximately an extra year in pre-engineering work. This extra year will permit the student to elect courses in economics and accounting and to gain a cultural background.

Freshman Year

Subject	Credit		
	A	W	S
Chemistry 14, 15, 16	5	5	5
Engineering 63, 64, 65	2	2	2
English 1, 2, 3	3	3	3
Phys. Ed. 1, 2, 3	1	1	1
Religion (elect any lower division course)	2	2	2
	18	18	18

Sophomore Year

Engineering 66	3		
Engineering 70, 71, 72	2	2	2
Geology 24			5
Mathematics 101, 102, 103	4	4	4
Mechanics 23		3	
Physics 41, 42, 43	5	5	5
Religion (elect any lower division course)	2	2	2
	16	16	16

PRE-MEDICAL COURSE

Advisers: Milton Marshall, C. Lynn Hayward, Russell Swensen

A three-year pre-medical course is outlined below. The student who wishes to extend his cultural background may elect a four-year course. In his senior year he should choose a major department, and, if a degree is desired, satisfy general and departmental graduation requirements.

Freshman Year

Autumn

English 1	3 hrs.
Religion	2 hrs.
Mathematics 1 or 12	5 hrs.
Chemistry 14	5 hrs.
Phy. Ed. 1	1 hr.
Total	16 hrs.

Winter

English 2	3 hrs.
Religion	2 hrs.
Zoology 11	5 hrs.
Chemistry 15	5 hrs.
Phy. Ed. 2	1 hr.
Total	16 hrs.

Spring

English 3	3 hrs.
Religion	2 hrs.
Botany 1	5 hrs.
Chemistry 16	5 hrs.
Phy. Ed. 3	1 hr.
Total	16 hrs.

Sophomore Year

Autumn

Chemistry 21	3 hrs.
Zoology 13 or 29	5 hrs.
Physics 31	5 hrs.
Religion	2 hrs.
English	2 hrs.
Total	17 hrs.

Winter

Chemistry 22	3 hrs.
Zoology 12	5 hrs.
Physics 32	5 hrs.
Religion	2 hrs.
English	2 hrs.
Total	17 hrs.

Spring

Psychology 11	5 hrs.
Zoology 13 or 29	5 hrs.
Physics 33	5 hrs.
Religion	2 hrs.
Total	17 hrs.

Junior Year

Autumn

Religion	2 hrs.
Chemistry 141	4 hrs.
History or Sociology	5 hrs.
German or French or elective	5 hrs.
Total	16 hrs.

Winter

Religion	2 hrs.
Chemistry 142	4 hrs.
Zoology 172	3 hrs.
German or French or elective	5 hrs.
Bacteriology 21	3 hrs.
Total	17 hrs.

Spring

Religion	2 hrs.
Chemistry 143	4 hrs.
History or Sociology	3 hrs.
elective	5 hrs.
German or French or Bacteriology 22	2 hrs.
Elective	2 hrs.
Total	18 hrs.

PRE-NURSING COURSE

Adviser: D. A. Anderson (Bacteriology Dept.)

Through a cooperative agreement with the Latter-day Saints Hospital at Salt Lake City, Utah, the first year pre-nursing course may be taken at the Brigham Young University. Upon completion of this course, students may enroll for nursing training at this hospital.

The prescribed course is as follows:

Autumn

Chemistry 3 or 4	5 hrs.
English 1	3 hrs.
Physical Ed.	1 hr.
Religion	2 hrs.
Health 1	1 hr.
History	5 hrs.
History (20th Century American or European)	5 hrs.
Total	17 hrs.

Winter

Chemistry 4 or 5	5 hrs.
English 2	3 hrs.
Physical Ed.	1 hr.
Zoology 11	5 hrs.
Religion	2 hrs.
Total	16 hrs.

Spring

Chemistry 23	5 hrs.
English 3	3 hrs.
Physical Ed.	1 hr.
Bacteriology 21-22	5 hrs.
Religion	2 hrs.
Total	16 hrs.

Summer

Psychology 11	5 hrs.
Sociology 12	5 hrs.
Speech or Literature	3 hrs.
Elective	3 hrs.
Total	16 hrs.

PRE-LEGAL COURSE

Advisers: Christen Jensen, Elmer Miller, J. Reuben Clark III.

The Association of American Law Schools which is composed of the leading law schools in this country makes no specific requirement concerning the content of pre-legal courses of study. It does suggest that a college student should be given a thorough mental training in fundamental subjects. A pre-legal student should lay a foundation for a broad culture, develop intellectual discipline, and cultivate professional standards of study. The more important problems confronting lawyers, judges, and legislators are basically economic, political, and social. A law student should acquire not only a knowledge of legal doctrine and of the judicial processes but also of the above mentioned fields of study.

The following important advice given by a leading law school may well be brought to the attention of pre-legal students:

"Few ideas are more fallacious or harmful than the notion that it is possible to dawdle through high school and college and then make the adjustment to higher standards promptly upon entering the professional school. Essential habits of concentration and effective methods of study must be acquired and developed during the pre-legal years. Careful reading and the constant exercise of practice in writing should be cultivated assiduously . . . A large proportion of failures in the professional school may be traced directly to the neglect of opportunities in school and college."

Maturity of thought is of particular importance in the study of law. Therefore, since the standard law course calls for careful, analytical, reasoned judgment, only relatively mature students should plan to enter a law school.

The preparation for the study of law is largely an individual problem. A general formula is only of limited assistance. All students who contemplate the study of law should therefore consult the advisers to pre-legal students for more detailed advice and information.

Upper Division Registration

At least by the beginning of the junior year students should select their major department and seek the aid of the major professor as well as the Dean in matters of registration. Students may select their majoris from any of the following departments in the College of Arts and Sciences: Archaeology, Bacteriology, Botany, Chemistry, English, Geology and Geography, History, Journalism, Mathematics, Modern and Classical Languages, Physics, Political Science, Psychology, Sociology, and Zoology and Entomology. The degrees, Bachelor of Arts and Bachelor of Science are given to graduates of this College.

DEPARTMENTS OF INSTRUCTION

Archaeology

Assistant Professor Jakeman; Professor Sperry; Associate Professor Nibley

A major in Archaeology requires the completion of lower division courses 10, 51, and 52, or their equivalents, and thirty hours of upper division work in the Department including courses 150 and 192.

A minor in Archaeology requires the completion of lower division courses 10, 51, and 52, or their equivalents, and twelve hours of upper division work in the Department.

Credit in Religion instead of Archaeology may be obtained for courses 51, 52, 116, 118, 166a and d, 183, and 192. (See the section of Archaeology in the Department of Bible and Modern Scripture, Division of Religion.)

Courses 51 and 52, or equivalent knowledge as determined by the instructor, are prerequisite to all upper division and graduate courses.

Lower Division Courses

10. Ancient Civilization. (5) A.

A survey of early civilization, dealing with the important oriental, Greek, and Roman states. This course is basic to the study of either archaeology or history. (See History 10.)

51. Principles of Archaeology, I. (2) A. Recommended: Archaeology or History 10. Jakeman.

The aims, methods, and principal results of modern archaeological research, as illustrated by the great discoveries of archaeology in the lands of the Bible and other parts of the Old World. Special attention will be given to the important bearing of archaeology on the Hebrew-Christian scriptures.

52. Principles of Archaeology, II. (2) S. Recommended: Archaeology 51. Jakeman

The aims, methods, and principal results of modern archaeological research, as illustrated by the great discoveries of

archaeology in the New World. Special attention will be given to the funramental problem of New World archaeology, namely the origin of the ancient civilizations of the New World, and the related problem of the origin of the American Indians.

Upper Division Courses

104. Early Art History. (2) A.

The history of art from prehistoric to classical and early Christian times, one of the important achievements of modern archaeological research, with some attention also to the ancient art traditions of the New World. (See Art 104.)

111. Near Eastern and Classical Archaeology. (3) A. One lecture and two two-hour laboratory periods per week. Jakeman.

A study in the early archaeological history of the Old World, particularly in the ancient Bible lands of the Near East and classical Greek and Roman lands of the Mediter ranean, with special attention to the general problems of historical interpretation in archaeology such as chronology, geography, and the origin of culture traits and civilizations.

116. The Archaeology of the Old Testament. (2) W. (Not given this year.) Sperry.

A survey of recent archaeological investigation in the Bible lands of the Near East, with special attention to the discoveries which have thrown new light on the Old Testament and the history, customs, art, and religion of the Hebrews.

118. New Testament and Early Christian Archaeology. (2) S. (Not given this year.) Nibley.

A survey of recent archaeological investigation in the classical lands of the Mediterranean, with special attention to the discoveries which have thrown additional light on the New Testament and the history, customs, art, and religion of the early Christians.

130. The Archaeology of Mexico and Central America. (3) A. Two lectures and one two-hour laboratory period per week. Jakeman.

A study in the ancient history and civilizations of "Middle America," or main archaeological region of the New World, with special attention to the early "Archaic" and classical Maya, Toltec, and Zapotec civilizations of this region, preceding the rise of the Aztecs.

134. The Archaeology of North America. (3) W. Two lectures and one two-hour laboratory period per week. (Not given this year.)

A study in the Indian prehistory of North America north of Mexico, with special attention to the early Basketmaker-Pueblo and Hohokam cultures of the local Southwest and the ancient Mound-Builders of the Eastern Woodland.

137. The Archaeology of Andean South America. (3) S. Two lectures and one two-hour laboratory period per week. Jakeman.

A study in the ancient history and civilizations of the Andean region of South America, with special attention to the early Chavin and Mochica-Chimu civilizations of Peru, the Classical Tiahuanaco civilization, and the empire of the Incas.

150. Field Archaeology. (3) A. One lecture and one four-hour field and laboratory period per week. Limited to majors and minors in Archaeology. Jakeman.

A course in the methods and techniques of scientific archaeological excavation, and the processing of ceramic and other excavated materials. The class will participate in the actual excavation of a prehistoric Indian mound of Utah Valley.

166. Readings in Old-World and Biblical Archaeology. (1 to 6) Any quarter. No more than two hours any quarter. Staff.

a. Near Eastern and Old Testament archaeology (1 or 2)
b. Prehistoric European archaeology. (1 or 2)
c. Classical archaeology. (1)
d. New Testament and early Christian archaeology. (1)

176. Readings in American Archaeology. (1 to 6) Any quarter. No more than two hours any quarter. Staff.

a. Middle American archaeology. (1 or 2)
b. Andean archaeology. (1 or 2)
c. Southwestern archaeology. (1)
d. Mound Area archaeology. (1)

183. The Problem of New-World Origins. (2) S. Upper division prerequisite: Archaeology 130; recommended: Archaeology 134, 137, and 176. Jakeman.

A further study in the fundamental problem of American archaeology, namely the origin of the ancient civilizations of America (see Archaeology 52), with special attention to the evidence of the earliest discovered remains of these civilizations in Mexico, Central America, and Peru.

192. **Seminar.** (1) S. Jakeman.
Informal discussions on the aims, problems, and methods of modern archaeological research, with special reference to the archaeology of the Scriptures.

198. **Special Studies in Archaeology.** (1 to 3) S. Staff.

Graduate Courses

221. **Advanced Archaeology of Bible Lands.** (3) A. Jakeman.
Directed museum and library studies in the archaeology of the Bible lands of the Near East and Mediterranean, particularly of one of these lands as selected by the student, such as Mesopotamia, Egypt, Palestine, Syria, Asia Minor, Greece, or Italy.

241. **Advanced American Archaeology.** (3) A. Jakeman.
Directed museum and library studies in the archaeology and ancient history of the New World, particularly of one of the regions of the advanced civilizations of ancient America as selected by the student, i.e. Middle America or Andean South America.

266. **Advanced Readings in Near Eastern and Biblical Archaeology.** (1 to 6) Any quarter. No more than two hours any quarter. Staff.
a. Recent Mesopotamian archaeology.
b. Recent Egyptian archaeology.
c. Recent Syro-Palestinian archaeology.
d. Recent Old Testament archaeology.
e. Recent New Testament and early Christian archaeology.

276. **Advanced Readings in American Archaeology.** (1 to 6) Any quarter. No more than two hours any quarter. Staff.
a. Recent Middle American archaeology.
b. Recent Andean archaeology.
c. Recent Southwestern archaeology.
d. Recent Mound Area archaeology.
e. Recent research in the problem of New World origins.

281, 282, 283. **Introduction to Cuneiform Studies.** (2-2-2) A. W. S. (See Akkadian 211, 212, 213.) Sperry.

284, 285, 286, 287. **Introduction to Hieroglyphic Studies.** (2-2-2-2) A.W.S. Staff
284, 285, 286. Egyptian hieroglyphic writings. (See Egyptian 221, 222, 223.) Nibley

287. Maya and other ancient American hieroglyphic writings. (Not given this year.) Jakeman.

295. Field Research. (3 to 10) Any quarter. Staff.

298. Museum and Library Research. (2) Any quarter. Staff.

300. Master's Thesis. (4 to 6) Any two quarters. Staff.

Bacteriology

(See College of Applied Science)

Botany

Professors Harrison, Stewart; Mr. McKnight, Mr. Holmgren

Students majoring in Botany should present credit in Botany 1, 3, 91, 101, 102, 103, 106, 140, 150, 155, 180, 181, 183, 184.

Students who desire to teach biology in high school may select a major in either the Botany or Zoology department. The following courses should be completed as a minimum: Botany 1, 2, 3, 10, 140, and 150. Bacteriology 21, Zoology 11, 18 or 29, 30, 45, 157 and 158.

Students interested in range management should take the following courses: Botany 1, 2, 3, 135, 140, 150, 155, and 170; Agronomy 22, 41, 107, 173; Animal Husbandry 4, 5; Landscape Architecture 1; Zoology 11, 153, 157, 158, 159; Entomology 30; Engineering 3, 4, 45.

Botany is one of the subjects comprising the composite major in Biological Science designed for prospective teachers. (See College of Education.)

Lower Division Courses

1. General Botany. (5) A.W.S. Three lectures and two two-hour laboratory periods per week. A prerequisite course to further work in the plant sciences. Also recommended for the non-science student. Staff.

The structure, physiology and reproduction of the higher plants.

2. General Botany. (4) W. Three lectures and one two-hour laboratory period per week. McKnight

A survey of the plant kingdom including the morphology of representative species.

3. Plant Taxonomy. (5) S. Three lectures and two two-hour laboratory periods per week. Harrison

The general principles of taxonomy and the use of manuals with emphasis on the classification of the local flora.

10. Trees and Shrubs. (3) S. Staff

The names and characteristics of the common trees and shrubs and their usage as ornamentals and in commerce.

91. Anatomy. (3) A. Three two-hour periods per week. Prerequisite: Botany 1. Harrison

The origin, development and maturation of the structures of vascular plants.

95. Histological Technique. (3) W. One lecture and six hours of laboratory work per week. Prerequisite: Botany 1. Harrison

The techniques of preparing plant tissues for microscopic examination.

Upper Division Courses

101. Morphology of Algae. (3) A. Three two-hour periods per week. Prerequisite: Botany 1. (Not given this year.) McKnight

A study of the structure, relationships, and life histories of the main groups of algae.

102. Morphology of Fungi. (3) A. Three two-hour periods per week. Prerequisite: Botany 1. McKnight

A study of the structure, relationships, and life histories of representative fungi.

103. Morphology of Bryophytes and Pteridophytes. (3) W. Three two-hour periods per week. Prerequisites: Botany 1, 91. McKnight

A study of the structure relationships, and life histories of mosses, liverworts, and ferns.

106. Morphology of Spermatophytes. (3) S. Three two-hour periods per week. Prerequisites: Botany 1, 91. McKnight

A study of the structure, relationships, and life histories of the seed plants.

130. Advanced Taxonomy. (3 to 5) S. Prerequisites: Botany 3, 91; Zoology 18 or 29. Harrison

Critical study of the characteristics, ecology, and classification of a limited plant group or plants of a limited area.

135. Range Forage. (3) A. One lecture and two two-hour laboratory periods per week. Prerequisite: Botany 3. Harrison

The characteristics, distribution, and value of the more important Western forage plants. (See Agronomy 110.)

140. Plant Physiology. (5) W. Three lectures and two two-hour laboratory periods per week. Prerequisites: Botany 1, Chemistry 14. Harrison

150. Plant Ecology. (5) A. Three lectures per week and six field trips. Prerequisite: Botany 1. Harrison

The relations of plants to their environment, their adaptations to factors of soil and climate, and their influence on each other.

155, 156. Field Ecology. (2-2) S. One lecture per week and one long field trip of about one week's duration. Prerequisite: Consent of instructor. Harrison

Field studies of plants and plant communities and the environmental conditions with which they are associated.

158. Methods in Field Ecology. (3 to 5) S. Prerequisite: Botany 150. Harrison

Field methods of estimating vegetation, measuring factors of soil and climate, principles of sampling and elementary surveying, applied toward the solution of simple field problems.

160. Experimental Ecology. (3) S. Two lectures and three hours of laboratory work per week. Prerequisites: Botany 140, 150. Harrison

The responses of plants to measured and controlled environmental conditions.

165. Plant Geography. (3) W. Prerequisite: Botany 3. Botany 150 or Zoology 46 recommended. (Not given this year.) Staff

Plant distribution and the origin of plant communities in the light of present and recent geological conditions.

168. Conservation of Natural Resources. (3 to 5) A.W.S. By arrangement. Stewart

The need for, and the means of providing conservation of forests, shrubs, range forage, and other plant cover as they

affect land-use management. The inter-relations of vegetation on water supplies and uses, on soil preservation, on livestock, and wildlife management, and on recreation are considered. Conservation of coal, minerals, and oil.

170. Plant Pathology. (5) W. Three lectures and two two-hour laboratory periods per week. Prerequisites: Botany 1. Botany 102 recommended. Daines

Important diseases of cultivated plants, their identification, causes, and methods of control.

180, 181. Seminar—Junior Year. (1-1) A.W. Required of all majors in their junior year. Staff

The presentation and discussion of topics from the current literature of the field.

183, 184. Seminar—Senior Year. (1-1) A.W. Required of all majors in their senior year.

The presentation and discussion of topics from the current literature of the field.

190, 191, 192. Special Problems. (1 to 5) A.W.S. Staff

Graduate Courses

230. Advanced Taxonomy (3 to 5) S.

255. Field Ecology. (2) S.

258. Methods in Field Ecology. (3 to 5) S.

259. Range and Forest Ecology. (2 to 4) A.W.S. By arrangement. Stewart

Distribution of desert and mountain plants as influenced by the climate and soil environments.

260. Experimental Ecology. (3) S. Harrison

268. Conservation of Natural Resources. (3 to 5) A.W.S. By arrangement. Stewart

270. Plant Pathology. (5) W. Daines

285, 286. Seminar. (1-1) A.W. Staff

290, 291, 292. Special Problems. (2 to 5) A.W.S.

300. Thesis. (4 to 6) A.W.S. Staff

Independent research on a thesis problem and the writing of the thesis.

Chemistry

Professors Nicholes, Emeritus Maw; Associate Professors Bryner, Peterson; Assistant Professors Wing, Broadbent, Goates, Swenson

The minimum requirements for the bachelor's degree with a major in chemistry are 45 hours of prescribed chemistry courses, but the Chemistry Department recommends the American Chemical Society's minimum of 63 hours which include Chemistry 14, 15, 16; 31, 32, 133; 151, 152, 153; 161, 162, 163; 191, 192, 193; and one additional course, preferably 181, 182, 183. The Department also recommends Mathematics 11, 12, 13; 101, 102, 103; Physics 41, 42, 43 or 31, 32, 33; and a reading knowledge of German and French or Russian.

Premedical students and teachers may major in chemistry. The following courses are recommended: 14, 15, 16; 21, 22 or 31, 32; 141, 142, 143; 181, 182, 183 and/or 161, 162, 163; and 191, 192, 193.

Chemistry is one of the subjects comprising the composite major in Mathematics and the Physical Sciences designed for prospective teachers. (See College of Education).

Lower Division Courses

1. **A Survey Course in Chemistry.** (3) A.W.S. Peterson
 For students other than science majors who desire a knowledge of chemistry for its cultural value. Students who have had high school chemistry should register for Chemistry 14.

3. **General Inorganic Chemistry.** (5) A.W.S. Three lectures, one quiz, and two two-hour laboratory periods per week.
 Recommended for science majors who do not meet the prerequisites of Chemistry 14. Staff

7. **Introductory Inorganic Chemistry.** (5) A. Three lectures and two two-hour laboratory periods per week. For students in Home Economics. Section 1, for those who have not had high school chemistry. Section 2, for those who have had high school chemistry. Bryner

8. **Introductory Organic Chemistry.** (5) W. Three lectures and two two-hour laboratory periods per week. Prerequisite: Chemistry 7 or equivalent. For students in Home Economics. Bryner

9. Introductory Biochemistry. (5) S. Three lectures and two two-hour laboratory periods per week. Prerequisite: Chemistry 8 or equivalent. For students in Home Economics. Bryner

14. Principles of Chemistry. (5) A.W.S. Three lectures, one quiz, and two two-hour laboratory periods per week. Prerequisites: two years high school mathematics, high school chemistry or Chemistry 3. Required of chemistry, engineering, physical science and biological science majors, and premedical and predental students. Staff

15. Principles of Chemistry. (5) A.W.S. Three lectures, one quiz, and two two-hour laboratory periods per week. Prerequisite: Chemistry 14. Staff

16. Principles of Chemistry and Qualitative Inorganic Analysis. (5) A.W.S. A., 1 section; W., 1 section; S., 5 sections. Two lectures and three two-hour laboratory periods per week. Prerequisites: Chemistry 14 and 15. Staff

21. Quantitative Analysis. (3) A.W. One lecture, two two-hour laboratory periods per week. Prerequisites: Chemistry 16 and College Algebra. For premedical, foods and general agriculture majors. Wing

Fundamental principles of gravimetric and volumetric analysis.

22. Quantitative Analysis. (3) W.S. One lecture, two two-hour laboratory periods per week. Prerequisite: Chemistry 16 and College Algebra. For premedical, foods and agriculture majors. Continuation of Chemistry 21. Wing

31. Quantitative Analysis. (4) A.W. Two lectures, two two-hour laboratory periods per week. Prerequisites: Chemistry 16 and College Algebra. For chemistry majors. Wing

Gavimetric analysis.

32. Quantitative Analysis. (4) W.S. Two lectures, two two-hour laboratory periods per week. Prerequisites: Chemistry 16 and College Algebra. For chemistry majors. Wing

Volumetric analysis.

Upper Division Courses

103. Soil Chemistry. (3) S. Prerequisites: Chemistry 111, 112, 113, or concurrent registration in Chemistry 161, 162, 163. Goates

A physico-chemical study of soil colloids.

109. Food Chemical Analysis. (5) S. Three lectures and two three-hour laboratory periods per week. Wing

Principles of quantitative analysis and their application to the analysis of foods.

111, 112, 113. Principles of Chemistry. (2-2-2). A.W.S. Prerequisites: Chemistry 14, 15, 16, and Mathematics 13. Nicholes

117. Physical Mineralogy. (3) A. (See Geology 117.) Bullock

118. Chemical Mineralogy. (3) W. Two lectures and one two-hour laboratory period. (See Geology 118.) Bullock

133. Quantitative Analysis. (4) S. Two lectures and two two-hour laboratory periods per week. Prerequisites: Chemistry 22 or 32. Wing

136. Fire Assaying. (3) S. Two lectures and two two-hour laboratory periods. Prerequisite: Chemistry 133. Wing

Assays of gold, silver, copper and lead ores.

141, 142, 143. Organic Chemistry. (4-4-4). A.W.S. Two lectures and two two-hour laboratory periods per week. Prerequisite: Freshman Chemistry. Broadbent

A study of the fundamentals of organic chemistry adapted primarily to the needs of premedical and predental students.

151, 152, 153. Organic Chemistry. (5-5-5). A.W.S. Three lectures and two two-hour laboratory periods per week Prerequisites: Chemistry 14, 15, 16; 31, 32; Physics 41, 42, 43 or 31, 32, 33 or consent of the instructor. Broadbent

A thorough introduction to the study of the compounds of carbon designed to satisfy the organic chemistry requirements for majors in chemistry and other sciences.

161, 162, 163. Physical Chemistry. (4-4-4) A.W.S. Three lectures and one three-hour laboratory period per week. Prerequisites: Physics 43, Calculus, and Chemistry 22 or 32. Bryner

This course deals with properties of gases, liquids, solids, solutions; thermo-chemistry; reaction velocity; electro-chemistry; equilibrium, and colloids.

181, 182, 183. Biochemistry. (4-4-4) A.W.S. Three lectures and one three-hour laboratory period per week. Prerequisite: Chemistry 143 or 153. Swensen

An introduction to the chemistry of protoplasm with emphasis on the reactions of intermediary metabolism and the constitution and the activity of enzymes, hormones, and vitamins.

191, 192, 193. Seminar. (1-1-1) A.W.S. One period per week. Open to advanced undergraduates and required of senior chemistry majors unless officially excused. Maw

197. Special Problems. Time and credit to be arranged. Registration by permission. Staff

Graduate Courses

211. Advanced Inorganic Chemistry. (3) A. Peterson
Studies in the structure of matter, periodic law, valency, ionization, rare elements, radiation and chemical reactions.

212. Inorganic Preparations. (2) W. Peterson

213. Advanced Qualitative Analysis. (3) A. One lecture and six hours laboratory work per week. Staff
Advanced principles and methods of qualitative analysis.

221. Advanced Quantitative Analysis. (3 to 5) A.W. Maw or Wing

222, 223. Micro-chemical Analysis. (2-2) W.S. Two three-hour laboratory periods per week. Wing
Training in the essential manipulative techniques of micro-analytical procedures in qualitative and quantitative chemistry.

251. Qualitative Organic Analysis. (3) A. One lecture and two three-hour laboratory periods per week. Prerequisites: Chemistry 151, 152, 153. Broadbent
The identification of organic compounds.

252. Organic Synthesis. (3) W. One lecture and two three-hour laboratory periods per week. Prerequisites: Chemistry 151, 152, 153. Broadbent
A systematic study of laboratory methods in organic synthesis accompanied by application of these methods in organic preparation.

253. Physical Organic Chemistry. (3) S. Prerequisites: Chemistry 161, 162, 163, and 251. Broadbent
A lecture course in organic reaction mechanisms and molecular structure as deduced by physico-chemical means.

261, 262. Chemical Thermodynamics. (3-3) A.W. Goates

263. Chemical Kinetics. (3) S. Goates

272. Chemistry of Colloid and Surface Phenomena. (3) W. Goates

276. The Phase Rule. (3) S. Bryner

281. Biochemistry. (3) A. Prerequisites: Chemistry 143 or 183, and 163. Swensen
The physical chemistry of cells and tissues.

282. Biochemistry. (3) W. Prerequisites: Chemistry 143 or 183 and 163. Swensen
The chemistry of enzyme action.

283. Biochemistry. (3) S. One lecture and two three-hour laboratory periods per week. Prerequisites: Chemistry 143 or 183. Swensen
Quantitative clinical chemistry.

291. Research. Special Problems. Time and credit to be arranged. Staff

300. Thesis. Time and credit to be arranged. Staff

English

Professors Christensen, Rowe, Young; Associate Professors Carroll, Spears; Assistant Professors Britsch, Tanner, Rice, Cheney, Jacobs; Mrs. Rich, Mr. Taylor, Miss Waterstradt, Miss Oaks, Miss Anderson, Mrs. Burmingham, Miss R. Clark, Mr. Dunn, Mr. C. F. Larson, Mr. W. Lee, Mr. West.

SCOPE OF INSTRUCTION

The English department offers courses in English language, English literature, and general and comparative literature. For convenience, the courses in general and comparative literature are brought together.

Requirements for the Degree of Bachelor of Arts

Students who elect their major in English are required to complete thirty-six hours of work in English in addition to English 1, 2, 3. The following program of study is prescribed: (1) twenty hours from courses 141, 142, 171, 172, 173, 174, 175, four of which must be in American literature; (2) six hours from courses 183, 184, 185, 186, 187, 188, 189, 190; (3) four hours from courses 181, 195, 197; (4) four hours from courses 82, 182; (5) three hours from courses 22, 32, 102.

Students may, however, make substitutions as follows: four hours from courses 41, 42, 43, for 141 or 142; 160 for 172; 130 for 174; 132 for 175.

Twenty-four hours in one or more foreign languages are required. The following courses in other departments are recommended: History 140, 141, 145; Psychology 11; and Linguistics 42.

Courses 71, 72, 73 are not open to students who elect their major in English. For students who minor in English and who may teach the subject the department recommends the following as a minimum program: 21, 22, 41, 42, 43, 71, 72, 73, 82, or 182.

Students making English a minor and desiring the recommendation of the department to take secondary training in English must show satisfactory credit in courses 21 and 22 or their equivalent.

The "Teaching Major" in English

The requirements for the "teaching major" in English and for the regular major are the same except that the foreign language requirements may be reduced or waived by the department to meet the special needs of some prospective teachers. Such reductions or waivers would necessitate, of course, the substitution of the Bachelor of Science degree for the degree of Bachelor of Arts.

English is one of the subjects comprising the composite major in Language Arts designed for prospective teachers.
(See College of Education.)

Requirements for the Degree of Master of Arts

Candidates for the degree of Master of Arts in English must have met the requirements for the degree of Bachelor of Arts or their equivalent. They must offer upper division or graduate credit in Old English, Chaucer, Shakespeare, and History of the English Language; they must have, exclusive of thesis credits, at least twenty hours of graduate credit in English; they must write a satisfactory thesis, and pass a comprehensive oral examination in the field of English language and literature.

Placement Tests for Freshman English

In Freshman English, consideration is given to the individual needs of students. To determine these needs all freshmen are required to take a placement test at the time of registration. Assignments to classes are made after this test.

Lower Division Courses

a. English Grammar and Composition. No Credit. A.W. Meets three times a week. Time to be arranged. Staff

A course preparatory to English 1 required of students who make an unsatisfactory grade in English placement test.

1. Composition and Literature. (3) A. Staff

Review of grammar, study of the principles of composition, theme writing, and reading in literature.

2. Composition and Literature. (3) W. Staff

Continuation of Course 1.

3. Composition and Literature. (3) S. Staff

Continuation of Course 2.

4. Business English 1. (3) A.W. Prerequisites: English 1, 2, 3. (See Office Practice 31.)

21. Advanced English Grammar. (4) A.W. Prerequisites: English 1, 2, 3. Section 1, Young; section 2, Britsch.

22. Advanced Rhetoric and Composition. (3) A.W.S. Prerequisites: English 1, 2, 3. Larson, Cheney

Long themes, lectures, conferences, required readings.

24. Classic Myths. (3) A. Carroll

A study of Greek, Roman, and Teutonic myths with special reference to their literary use.

31. Vocabulary Building. (4) S. Young

A course that aims at effective expression through the study of words.

32. Short Story Writing. (2) W. Cheney

41. Masterpieces of American Literature. (2) A. Britsch, Taylor

42. Masterpieces of American Literature. (2) W. Britsch, Taylor

43. Masterpieces of American Literature. (2) S. Britsch, Taylor

44. Contemporary American Poets. (2) S. Britsch

45. Contemporary American Short Story Writers. (3) A. Cheney

46. Contemporary American Novelists. (2) (Not given this year.)

47. The West in American Literature. (3) (Not given this year.)

48. Emerson and Thoreau. (3) A. Jacobs

49. Whitman and Twain. (3) S. Jacobs

71. Masterpieces of English Literature. (2) A.
Tanner, Oaks, Anderson

72. Masterpieces of English Literature. (2) W.
Tanner, Oaks, Anderson

73. Masterpieces of English Literature. (2) S.
Tanner, Oaks, Anderson

82. Shakespeare. (4) A. Young

The following plays will be studied: **Comedy of Errors, Love's Labors Lost, Richard II, Henry IV (i and ii), Henry V, As You Like It, All's Well That Ends Well, Twelfth Night, Merchant of Venice, Julius Caesar, Romeo and Juliet, Hamlet, King Lear, Othello, Macbeth.**

84. Wordsworth: The Shorter Poems. (3) W. Rowe

GENERAL AND COMPARATIVE LITERATURE

Lower Division

50. Introduction to Literature. (4) A.W.S. Christensen, Tanner

51. Introduction to Drama. (3) A. Tanner

Upper Division Courses

102. Advanced Creative Writing. (1 to 4) A.W.S.
Larson, Lee, Cheney

An advanced course for students interested in writing verse, drama, prose fiction, or essays. Credit according to work done.

130. Romantic Poetry. (3) W. Rowe

A study of romanticism as manifested in English poetry in the eighteenth and nineteenth centuries.

131. Romantic Prose. (2) A. Rowe

A study of the principal prose writings of the Romantic Movement.

132. Victorian Poetry. (3) (Not given this year.)

133. Victorian Prose. (3) (Not given this year.)

141. The American Heritage. (4) A. Jacobs

A study of writings that were significant in the social, economic, and political scene of America before 1865.

142. The American Heritage. (4) W. Jacobs

A study of writings significant in the American scene after 1865.

143. The Novel in America. (4) W. Jacobs

The emergence of a novel-reading public. The foreign novel in America. The American novelists through Dreiser.

144. The Modern American Novel. (4) (Not given this year.) Jacobs

146. Modern American Drama. (3) S. Rich

160. English Drama to 1642. (4) S. (Not given this year) Young

The beginning and development of English drama, to the closing of the theaters.

162. Modern British Drama. (3) W. Rich

164. Restoration Drama. (4) S. (Not given this year.) Young

171. Medieval Literature. (4) A. Christensen

172. English Literature from 1500-1660. (4) W. Young

173. English Literature from 1660-1780. (4) S. Young

174. English Literature from 1780-1832. (4) S. Rowe

175. English Literature from 1832-1900. (4) S. Carroll

181. Chaucer. (4) W. Christensen

182. Shakespeare. (4) S. Christensen

183. Milton. (3) W. Christensen

184. Wordsworth: The Longer Poems. (3) S. Rowe

185. Tenyson. (3) W. Carroll

186. Browning. (3) S. Britsch

187. Matthew Arnold. (3) S. Christensen

188. Samuel Johnson. (3) S. (Not given this year.) Young

189. Byron. (3) A. Rowe

190. Pope and Dryden. (3) W. (Not given this year.) Rice

192. The English Novel. (4) S. (Not given this year.) Rice
The history of English prose fiction to the beginning of the Victorian Period.

193. The Modern English Novel. (4) A.W. Rowe
The technique of the novel, and the phases of life reflected in it.

195. Old English. (4) A. Christensen

196. Beowulf. (3) S. Prerequisite: Course 195. (Not given this year.) Christensen

197. The History of the English Language. (4) S. Christensen

GENERAL AND COMPARATIVE LITERATURE

Upper Division

150. The Renaissance in European Literature. (3) A. Spears

151. Neo-Classicism in European Literature. (3) W. Spears

152. Romanticism in European Literature. (3) S. Spears

158. Modern Short Biography. (4) W. (Not given this year.) Young

161. Modern European Drama. (3) A. Rich

165. Types of World Literature. (2) A. Carroll

166. Types of World Literature. (2) W. Carroll

167. Types of World Literature. (2) S. Carroll

168. The Modern Novel. (3) S. Jacobs
Recent continental and American novelists will be read and appraised.

169. Poetry. (3) S. Rowe
A somewhat technical study of versification, forms, and theories of poetry.

198. The Criticism and Appreciation of Literature. (4) W. Christensen

A study of critical theories and standards of value.

GRADUATE COURSES

241. The American Heritage. (4) A. Jacobs

242. The American Heritage. (4) W. Jacobs

243. The Novel in America. (4) W. Jacobs

244. The Modern American Novel. (Not given this year.) Jacobs

246. Modern American Drama. (3) S. Rich

250. The Renaissance in European Literature. (3) A. Spears

251. Neo-Classicism in European Literature. (3) W. Spears

252. Romanticism in European Literature. (3) S. Spears

258. Modern Short Biography. (4) W. (Not given this year.) Young

260. English Drama to 1642. (4) S. (Not given this year.) Young

261. Modern European Drama. (3) A. Rich

262. Modern British Drama. (3) W. Rich

264. Restoration Drama. (3) S. (Not given this year.) Young

265. Types of World Literature. (2) A. Carroll

266. Types of World Literature. (2) W. Carroll

267. Types of World Literature. (2) S. Carroll

268. The Modern Novel. (3) S. Jacobs

269. Poetry. (3) S. Rowe

271. Medieval Literature. (4) A. Christensen

272. English Literature from 1500-1660. (4) W. Young

273. English Literature from 1660-1780. (4) S. Young

274. English Literature from 1780-1832. (4) S. Rowe

275. English Literature from 1832-1900. (4) S. Carroll

281. **Chaucer.** (4) W. Christensen

282. **Shakespeare.** (4) S. Christensen

283. **Milton.** (3) W. Christensen

284. **Wordsworth.** (3) S. Rowe

281. **Tennyson.** (3) W. Carroll

286. **Browning.** (3) S. Britsch

287. **Matthew Arnold.** (3) S. Christensen

288. **Samuel Johnson.** (3) S. (Not given this year.) Young

289. **Byron.** (3) A. Rowe

290. **Pope and Dryden.** (3) W. (Not given this year.) Rice

292. **The English Novel.** (4) S. (Not given this year.) Rice

293. **The Modern English Novel.** (4) A.W. Rowe

295. **Old English.** (4) A. Christensen

296. **Beowulf.** (3) S. Christensen

297. **History of the English Language.** (4) S. Christensen

298. **Criticism and Appreciation of Literature.** (4) W. Christensen

300. **Thesis for Master's Degree.** Credit to be arranged Staff

Geology and Geography

Professor Hansen; Associate Professor Bissell; Assistant Professors Bullock, Proctor, Tuttle.

GEOLOGY

Geology 1, 12, 55, 107, 117, 118, 119, 130, 131, 132, and 171; Chemistry 14, 15, and 16; Physics 41, 42, 43; Mathematics 11, 12, and 13; Drawing 66, and Engineering 70, 71, and 72 are recommended for students majoring in Geology. Mathematics and Chemistry should be taken during the Freshman and Sophomore years.

Students desiring to qualify for teaching Geology and Geography in high school should take the following courses: Geology 1, 12, 117, 118, 119, and 130; and nine additional hours of geography approved by the Chairman of the Department.

Geology and Geography are among the subjects comprising the composite majors in Mathematics and Physical Science and in the Biological Science designed for prospective teachers (See College of Education).

Lower Division Courses

1. Physical Geology. (5) A.W.S. Four lectures, and one two-hour laboratory section per week. Staff

A general survey course of the field of physical geology. The common rock-forming minerals and common rocks will be studied in the laboratory. Designed for students who desire a broad introduction to earth science.

12. Historical Geology. (5) A.W.S. Four lectures, and one two-hour laboratory section per week. Prerequisite: Geology 1. Bissell, Hansen

A continuation of Geology 1, constituting a study of the history of the earth and the evolution of the life forms. Representative fossils will be studied in the laboratory.

16. Geomorphology. (5) W. Four lectures, and one two-hour laboratory section. Prerequisite: Geology 1, 12. Staff

A study of the processes at work on the land surface and the topographic forms produced by them. This course includes practice in the interpretation of topographic maps. Designed for students desiring a broad concept of the field of physical geology.

24. Engineering Geology. (5) A. Four lectures, one two-hour laboratory section, and one Saturday field trip. Bissell

A study of the fundamental principles in geology which relate to engineering practice, including the character of rocks, their use in building, their structure, and their relationship to dam sites, tunnels, etc. Designed for students of Engineering.

55. Introductory Economic Geology. (3) A. Prerequisites: Geology 1, 12. Proctor

A study of the manner of occurrence, origin and uses of the metallic ores and the non-metallic mineral products.

Upper Division Courses

107. Soil Geology. (3) S. Two lectures, and one two-hour laboratory section per week. Farnsworth

(See Agronomy 107).

117. Physical Mineralogy. (3) A. Prerequisites: Geology 1 and Chemistry 16. Bullock

This course is devoted to a detailed study of the physical properties of minerals, including the elements of crystallography. Practice is given in the determination of the forms on wooden models and natural crystals.

118. Chemical Mineralogy. (3) W. Two lectures, and two two-hour laboratory sections per week. Prerequisites: Geology 117. Bullock

This course deals with the occurrence, description, and uses of about 200 of the more important minerals. The laboratory period is devoted to the identification of minerals by use of chemical reagents and by blowpipe analysis.

119. Lithology. (3) S. Two lectures, and one two-hour laboratory section per week. Prerequisite: Geology 118. Bullock

A broad study of the important rock forming minerals and the common igneous, metamorphic, and sedimentary rocks.

125. Gemmology. (2) A.S. Prerequisites: Geology 117, 118. Hansen

This course is devoted to the study of gem materials and lapidary techniques.

130. Structural Geology. (5) A. Prerequisites: Geology 1, 12, 119; Mathematics 12. Bissell, Proctor

A detailed study of the structural features of the earth's crust and of the forces which have produced these structures. This course includes practice in the interpretation of geologic maps and the solving of structural problems.

131. Geology of the United States. (5) W. Prerequisite: Geology 130. Hansen

A study of the stratigraphy, structure, and areal geology of the United States from the geologic maps of representative areas.

132. Field Geology. (5) S. Prerequisites: Geology 130, Mathematics 12. Bissell, Proctor

This course offers training in the methods of geologic field work; use of topographic maps; use of Brunton compass, altimeters, steel tapes. Emphasis is placed on the use of plane-table and alidade in topographic and geological mapping. Each student will be required to make a topographic map and geologic map of a small area in the Wasatch Mountains near the campus.

150. Mineral Optics. (5) A. Three lectures, and two two-hour laboratory sections per week. Prerequisite: Geology 118. Bullock

A study of the principles of mineral identification by means of the petrographic microscope.

151. Petrography. (5) W. Three lectures, and two two-hour laboratory sections per week. Prerequisite: Geology 150. Bullock

A study of the common rocks with the aid of the petrographic microscope. This course is a continuation of Mineral Optics.

152. Petrology. (5) S. Three lectures, and two two-hour laboratory sections per week, and three Saturday field trips. Prerequisite: Geology 118. Bullock

A megascopic study of the common rocks with emphasis upon origin, classification and field identification.

160, 161, 162. Advanced Field Geology. Credit to be arranged. A.W.S. Bissell, Proctor

Designed for those students majoring in geology, who in their junior and senior years are completing field work toward a thesis and need additional guidance; and for students who desire advanced courses in geology.

165. Physical Anthropology. (3) A. Prerequisites: Geology 1, 12. Hansen

170. Vertebrate Paleontology. (5) A. Three lectures, and two two-hour laboratory sections per week. Prerequisites: Geology 1 and 12. Hansen

171. Invertebrate Paleontology. (5) W. Three lectures, and two two-hour laboratory sections per week. Prerequisites: Geology 1 and 12. Bissell

A systematic study of the invertebrate animal kingdom. This course will give an introduction to the study of the structure, mode of life, distribution, and development of the living invertebrates of the past ages. Typical fossils of each group will be studied.

174. Stratigraphy and Fossils of the Wasatch. (3) S. Prerequisite: Geology 171. Bissell

A study of the sedimentary rock sequences and their enclosed fossils in the Wasatch Mountains.

176. Sedimentology. (3) A. Two lectures, and one two-hour laboratory section per week. Prerequisites: Geology 1, 12, 119. Bissell

A study of the processes of sedimentation, and a study of the origin, constitution, and relationships of sediments. Students will learn to sample sediments from Provo River and Utah Lake, then analyze the sediments and interpret the results.

177. Petroleum Geology. (5) S. Prerequisites: Geology 1, 12, 130. Hansen

A study of the geologic relationships of the various oil fields of the world.

180. Ore Deposits. (5) W. Prerequisites: Geology 117, 118, 130. Proctor

A study of the principles and processes of formation of mineral deposits, with emphasis upon the metallic minerals.

181. The Non-Metallic Minerals. (5) W. Prerequisites: Geology 117, 118, 130. Proctor

A study of the geologic occurrences and relationships of the non-metallic minerals.

185. Geology of Ground Water. (5) W. Prerequisite: Geology 130. Hansen

191, 192, 193. Seminar. (1-1-1) A.W.S. Required of seniors who are majoring in geology. Staff

196. Readings in Geology. (1 to 6, no more than one hour any quarter) A.W.S. Staff

Graduate Courses

201, 202, 203. Research. Time and credit to be arranged. A. W.S. Staff

Special problems in the field of geology will be assigned to students prepared to do original work.

210. Geology of Utah. (3) A. Two lectures, and three long field trips, the expense to be borne by the students. Prerequisite: Geology 130. Staff

217, 218. Physical and Chemical Mineralogy. (3-3) A.W. Prerequisites: Geology, Chemistry 16. Bullock

224. Engineering Problems in Geology. Credit to be arranged. A. Prerequisite: Geology 130. Staff

230. Problems in Structural Geology. Credit to be arranged. A.W.S. Prerequisite: Geology 130. Bissell, Proctor

250, 251. Mineral Optics and Petrology. (5-5) A.W. Prerequisite: Geology 118. Bullock

252. Petrology. (5) S. Prerequisite: Geology 118. Bullock

260, 261, 262. Advanced Field Geology. Credit to be arranged. A.W.S. Prerequisite: Geology 132.

270. Special Problems in Vertebrate Paleontology. (3) S. Hansen

271. Special Problems in Invertebrate Paleontology. (3) W. Bissell

280. Ore Deposits. (5) S. Prerequisites: Geology 118, 119, 130. Proctor

281. The Non-Metallic Minerals. (5) S. Prerequisites: Geology 118, 119, 130. Proctor

300. Thesis. Not more than six credit hours. A.W.S. Staff

Geography

Lower Division Courses

20. Introductory Geography. (3) A. Tuttle

A study of the geographic factors of climate and topography, and their relationship to man's activities.

21. Geography of Utah. (3) W. Tuttle

The response man has made to his geographic environment.

23. Economic Geography. (3) S. Bullock

A study of the geographic aspects of the world's resources and industries.

75. Cartography and Map Interpretation. (3) S. Tuttle

A study of the kinds and uses of maps, their construction and interpretation.

Upper Division Courses

130. Climatology. (3) A. Prerequisite: Geography 20, or Physics 21. Tuttle

A study of the climatic elements, controls, and distribution.

145. Physiography of North America. (3) W. Prerequisite: Geography 20, or Geology 1. Tuttle

A study of the physiographic provinces of North America.

150. Geography of North America. (3) A. Prerequisite: Geography 20. Tuttle

A study of the geographic factors and their influence on man and his activities in North America.

155. Geography of Latin America. (3) W. Prerequisite: Geography 20. Tuttle

A study of the geographic factors and their influence on man and his activities in Central and South America.

160. Geography of Europe. (3) S. Prerequisite: Geography 20. Tuttle

A study of the geographic factors and their influence on man and his activities in Europe.

165. Geography of Asia. (3) S. Prerequisite: Geography 20. Tuttle

A study of the geographic factors and their influence on man and his activities in Asia and the East Indies.

168. Readings in Geography. (1 to 6, no more than one hour any quarter).

Prescribed readings in the different fields of geography.

Graduate Courses

205, 206, 207. Research. Hours and credit to be arranged. A. W.S. Tuttle

Under this course special problems may be assigned students who are prepared to do original work in the field of Geography.

211. Physiography of Utah. Time and credit to be arranged. Hansen

A study of the present surface forms of Utah and how they came to be developed.

221. Geography of Utah. (3) W. Tuttle

223. Economic Geography. (3) S. Bullock

230. Climatology. (3) A. Tuttle

245. Physiography of North America. (3) W. Tuttle

250. Geography of North America. (3) A. Tuttle

255. Geography of Latin America. (3) W. Tuttle.

260. Geography of Europe. (3) S. Tuttle

265. Geography of Asia. (3) S. Tuttle

286. Readings in Geography. (1 to 6, no more than one hour any quarter). Tuttle

300. Thesis. Not more than six credit hours. A.W.S. Staff

History

Professors Jensen, R. B. Swensen; Assistant Professors Poll, Madsen, Carr; Mr. Grow, Mr. J. R. Clark

Requirements for Major in History

A History major requires the completion of 45 hours of work in this field. History 10, 11, 12, 20, 21, are required courses and should be completed by the end of the sophomore year. The additional work shall consist of upper division courses which will be chosen by the student with the consent of the major professor.

A student deciding to major in History must immediately consult the head of the department who will determine, in consultation with the student, upon the minor field of work.

HISTORY is one of the subjects comprising the composite major in SOCIAL SCIENCE. (See College of Education).

Lower Division Courses

10. Ancient Civilization. (5) A. R. B. Swensen, Clark

A survey of early civilization dealing with the important oriental, Greek, and Roman states.

11. Medieval and Early Modern Europe. (5) W. R. B. Swensen, Clark

A study of the political, social, economic, and religious institutions from the disintegration of the Roman Empire to 1650.

12. Modern and Contemporary Europe. (5) S. R. B. Swensen, Clark

An examination of the political, economic, social, and cultural changes since 1650 which have resulted in the development of present day Europe.

20. The United States to 1865. (5) A.W.
Poll, Madsen, Grow

The era of discovery and colonization; causes and character of the American Revolution; the Articles of Confederation, the Constitution, and the development of national government; foreign affairs and the Monroe Doctrine; westward expansion; sectionalism, slavery, and secession; the Civil War.

21. The United States Since 1865. (5) W.S.
Poll, Madsen, Grow

Consequences of the Civil War and Reconstruction; industrialization and urbanization; American imperialism; the period of reform; causes and character of the first and second World Wars; the New Deal; current problems.

30. Economic and Financial History of the United States. (3) A.W.S. Grow

Economic development of the United States from colonial times to the present, with emphasis upon economic integration and industrial development since the Civil War.

Upper Division Courses

100. Early Oriental History. (3) A. R. B. Swensen

A study of ancient civilization including Egypt, Babylonia, Assyria, China, India, Arabia, Persia; also of the Hebrews, and other oriental races. The course is helpful to those especially interested in the Jewish scriptures.

104. Greek History. (3) W. R. B. Swensen

Social, cultural, economic, and political developments of the Greek people from the early heroic age down to Alexander. Major emphasis on phases of Greek culture which have influenced western civilization. R. B. Swensen

107. Roman History. (3) S. R. B. Swensen

A survey extending from the rise of the Republic to the reign of Justinian. Special consideration will be given to the economic, social, cultural, and political forces, which brought about the growth and decline of the Empire.

110. Medieval History. (3) A. R. B. Swensen

Survey of the period from the disintegration of the Roman Empire to 814.

111. History of Europe, 814-1250. (3) W. R. B. Swensen

A study of the social, economic, and religious changes implicit in Feudalism, the Crusades, and the rise of cities.

112. Close of the Middle Ages, 1250-1555. (3) S. R. B. Swensen

Emphasis in this period will be placed on the rise and growing power of the Third Estate, the Renaissance, the Reformation, and the emergence of monarchial states.

120. The Rise of Modern Europe, 1556-1789. (3) A. (Offered in 1949-50 and alternate years). Poll

121. Europe in Revolution and Reaction, 1789-1848. (3) A. (Offered in 1948-49 and alternate years). Poll

122. The Expansion and Explosion of Europe, 1848-1919. (3) W. (Offered in 1948-49 and alternate years). Poll

The political, economic and social history of Europe for the three periods indicated from 1556-1919. Any of the three courses may be taken independently of the other two; the prerequisite for each is History 12 or equivalent, or permission of the instructor.

123. The Era of Disillusion and Dictatorship, 1919-1948. (3) S. Prerequisite: History 12. Poll

The political, economic, and social history of Europe between wars; World War II and the problems of today.

130. History of Russia. (3) S. Poll

Survey of the main trends in Russian development; special emphasis upon the events of the 20th century; the revolutions of 1905 and 1917, and the foreign and domestic policies of the U.S.S.R.

131. History of Russia (continued) (3) (Offered in 1949-50). Poll

137. The Diplomacy of Europe, 1871-1948. (3) W. (Offered in 1949-50). Prerequisite: History 12. Poll

Political, economic, and territorial rivalries of the powers; systems of alliances; relations with the United States and Japan; causes and consequences of the two world wars; the League of Nations and the United Nations.

140. History of England to 1714. (3) A. Madsen

A study of the origin and development of the English people and English institutions from the earliest times to 1714. Special consideration is given to the Tudor period and to the evolution of parliamentary sovereignty.

141. History of England Since 1714. (3) W. Madsen

Development of cabinet government; economic, and humanitarian movements of the last two centuries; growth of the empire and the relation of Britain to her colonies and dominions; Britain and the First and Second World Wars; post-war problems.

145. Constitutional History of England. (3) S. (Offered in 1948-49 and alternate years.) Prerequisite: History 140, 141. Madsen

A study of English constitutional development from the Anglo-Saxon period to the present. Emphasis is on the growth of Parliament and the development of Cabinet responsibility leading to the establishment of a constitutional democratic form of monarchy.

148. History of Canada. (3) A. Grow

A study of the founding and development of Canada to the present day.

150. History of Latin America: Colonial Period. (3) W. Madsen

The wars of Independence; evolution of modern republics; cultural development; inter-American relations; 1800 to present.

160, 161. History of the American Frontier. (3-3) A.W. Poll

The transplantation of European culture to America, and the advance of the frontier across the continent; operation of the territorial system; the impact of the West upon American life.

166. History of Utah. (3) S. Poll

The early history of the Great Basin; the Mormon migration; economic, political, and social developments; problems of territorial government and the attainment of statehood.

170. American History to 1783. (3) A. (Offered in 1948-49 and alternate years.) Madsen

Establishment of the English colonies in North America and the West Indies; development of colonial institutions; struggle with the French; causes and course of American Revolution.

175. The Founding of the Nation, 1783-1815. (3) W. (Offered in 1948-49 and alternate years). Poll

176. The Age of Jackson, 1815-1850. (3) S. (Offered in 1948-49 and alternate years). Poll

177. The Civil War and Reconstruction, 1850-96. (3) W. (Offered in 1949-50 and alternate years). Prerequisite: History 20, 21, or the equivalent.

178. The Progressive Era, 1896-1919. (3) S. (Offered in 1949-50 and alternate years). Prerequisite: History 20, 21, or the equivalent.

179. The Contemporary Period in America, 1919-48. (3) A. Poll

The course is designed to facilitate understanding of current happenings. Emphasis is placed upon the causes and character of the depression in 1929, the objectives and accomplishments of the New Deal, the diplomacy of isolationism, and the second World War and its aftermath.

180. Social History of the United States. (3) A. (Offered in 1948-49 and alternate years). Poll

Changes in American life since colonial times; the impact of industrialization and urbanization; intellectual and cultural achievements.

186. Constitutional History of United States. (3) W. Prerequisite: History 20, 21, or equivalent. Jensen

A study of the historical evolution, in American history, of the principles which underlie the American Constitutional system.

190. History Seminar. (2) A. Madsen

191. History Seminar. (2) W. Madsen

192. History Seminar. (2) S. Required of senior and graduate majors. Prerequisite: History 195. Poll

These Seminar courses involve the preparation and presentation of research reports, orally and in written form.

195. Historiography and Historical Method. (3) A. R. B. Swensen

A course in the fundamental methods of study and research and an analysis of the various philosophies of history.

196. European Historians. (3) S. R. B. Swensen

A survey of the lives and writings of the Greek, Roman, and medieval writers of history.

197. American Historians. (3) (Not given in 1948-49)

198. Research. Credit determined by instructor. Staff

199. Research. Credit determined by instructor. Staff

Graduate Courses

200. Early Oriental History. R. B. Swensen
Problems of Ancient civilization.

204. Grecian History. R. B. Swensen
A study of important problems dealing with the development of Greek life and culture.

207. Roman History. R. B. Swensen
Problems of agrarian reform and Roman imperialism.

210. Medieval History. R. B. Swensen
Studies dealing with the Papacy and Monasticism.

211. Medieval History. R. B. Swensen
Problems relating to Feudalism, the Crusades, and the rise of cities.

212. Close of the Middle Ages. R. B. Swensen
Emphasis on the Renaissance, the Reformation, rise of the Third Estate, and the rise of monarchial states.

220. Europe, 1556-1789. Poll

221. Europe, 1789-1848. Poll

222. Europe, 1848-1919. Poll

223. Europe, 1919-1948. Poll

237. Diplomatic History of Modern Europe. Poll

240. History of England to 1714. Madsen

241. History of England since1714. Madsen

245. Constitutional History of England. Madsen

250. History of Latin America: Colonial Period. Madsen

251. History of Latin America: Modern Period. Staff

260, 261. History of American Frontier. Poll

270. History of Colonial America. Madsen

275. Founding of the American Nation (1783-1815) Poll

276. The Age of Jackson (1815-1850).	Poll
277. Civil War and Reconstruction (1850-1896).	Staff
278. The Progressive Era (1896-1919).	Staff
280. Social History of United States.	Poll
286. Constitutional History of United States.	Jensen
290, 291, 292. History Seminar.	Madsen, Poll
295. Historiography and Historical Method.	R. B. Swensen
296. European Historians.	R. B. Swensen
297. American Historians.	Staff
298, 299. Research.	Staff
300. History Thesis. Credit 4 to 6 hours.	Staff

Journalism

Assistant Professor Smith; Professors Pardoe, Hales, Jenson; Associate Professor W. J. Taylor; Mr. Wight, Mr. Boel, Mr. Haymore, Mr. N. L. Christensen

English 1, 2, and 3 are prerequisites for all courses in Journalism except courses 1, 26, 27, 35, 37, 39, 40, and 41.

A student who elects to major in Journalism will pursue one of four specialization sequences listed below:

News and Editorial: minimum of 36 credit hours in Journalism, including courses 61, 62, 105, 106, 107, 179, 181, and 185. Recommended electives are courses 26, 27, 139, 173, and 188.

Advertising and Public Relations: minimum of 36 credit hours in Journalism, including courses 26, 27, 61, 105, 106, 135, and 139. Recommended electives are courses 35, 39, 40, 41, 111, and 185.

Radio Journalism: minimum of 30 credit hours in Journalism, including courses 42, 45, 46, 61, 62, 106, 107, 141, and 179, and the following courses in Speech: 12 41, and 43 or 143. Recommended electives are courses 105, 139, and 173.

Teaching: minimum of 36 credit hours in Journalism, including courses 61, 62, 105, 106, 111, 135, 179, 185 and 197, and

teacher education courses as prescribed by the department of Secondary Education. Recommended electives are courses 26, 27, and 167. Journalism is one of the subjects comprising the composite major in Language Arts designed for prospective teachers. (See College of Education).

Also required in connection with each sequence are five hours each in Economics, Political Science, and Sociology, and fifteen hours of English in addition to English 1, 2, and 3. Twenty-four hours in one or more foreign languages are recommended.

In addition to pursuing a thorough program in the department, majors and minors are advised to obtain as broad a background as possible through courses in English and the social sciences. Majors must have ability to operate a typewriter.

The following are suggested as minors for students who major in Journalism: Accounting and Business Administration, Art, Economics, History, Marketing, Political Science, Sociology.

Lower Division

1. **Introduction to Journalism.** (3) A.W. Wight

 An introduction to the social, cultural, and practical aspects of the newspaper, magazine, radio and related fields of journalism. Emphasis is given to the viewpoint of the layman as a "consumer" of journalism.

26. **Photography.** (4) A.S. Three lectures and one three-hour laboratory period per week. Hales

 Lectures on the theory and art of photography; laboratory exercises in photographic manipulation, determination of the characteristics of photographic materials. (See Physics 26).

27. **Press Photography.** (3) W. One lecture and two three-hour laboratory periods per week. Prerequisites: Journalism 26 and consent of instructor. Boel

 Lectures on the principles of photography for newspapers and periodicals, and laboratory exercises in the use of photographic equipment for the taking and developing of news pictures.

35. **Typography and Printing Processes.** (2) W. One lecture, one two-hour laboratory period per week. Haymore

 Study of type styles and sizes, mechanical equipment, letterpress and offset printing, engraving processes and technical aspects of publishing; laboratory practice in printing methods.

37. Printing Shop Practice. (3) A.W.S. Prerequisite: Journalism 35 and approval of head of department. Haymore

Supervised practice in the mechanical processes of printing, including typesetting, page makeup, and presswork, for a minimum of nine hours per week.

39, 40, 41. Commercial Art. (2-2-2) A.W.S. Jenson

Line lettering, brush work and simple layout. (See Art 39, 40, 41.)

42. Radio Script Writing. (3) W. Pardoe

Analysis and writing of radio script and program continuity. (See Speech 42.)

45. Radio Studio Organization. (2) W. Pardoe

Staff experience on station KBYU, affiliate of Intercollegiate Broadcasting System. (See Speech 45.)

46. Radio Techniques of Recording and Playback. (2) S. Pardoe

Wire, tape, and disc recording techniques. (See Speech 46.)

61. Newswriting. (3) A.S. Prerequisite: English 3. Wight, Christensen

Newspaper style and the elements of news; practice in gathering and writing news stories. Use of typewriter is required. (See also Speech 51.)

62. Reporting Problems. (3) W. Prerequisite: Journalism 61. Christensen

Study of reporting and news gathering techniques; practice in handling special reporting assignments such as sports, society, politics, conventions and police news.

64, 65, 66. College Reporting. (1-1-1) A.W.S. Prerequisite: Journalism 61 and approval of instructor. Smith

Supervised staff work in gathering and writing news for publication in the campus newspaper.

Upper Division

105. History of Journalism. (5) W. Smith

Development of American journalism from its colonial beginnings to the present, portraying the press in relation to the political, social, and economic history of the times. Special attention will be given to the establishment and growth of newspapers in the West.

106. Journalism and Society. (3) W. Smith, Wight

The role of journalism in American life; ideals and deficiencies of the newspaper, with emphasis on obligations to the community.

107. Press and Radio Law. (2) S. Staff

Study of legal limits and privileges of the press and radio; libel, contempt, privileged documents and sources, copyright, right of privacy. Problems in avoiding criminal and civil liabilities. (See also Speech 147.)

111, 112. Magazine Article Writing. (3-3) A.W. Recommended: Journalism 61. Wight

Study of non-fiction articles for general magazines, specialized publications and newspaper sections; assignments in planning and writing articles. Criticism, analysis of manuscript markets, and help in selling articles written in the course. Either quarter may be taken without the other.

135. Publicity. (5) S. Prerequisite: Journalism 61. Smith

Nature of publicity as an approach to the public consciousness through the newspaper, the magazine, the radio broadcast, and other media. Practice in using various publicity techniques.

139. Advertising. (5) A.S. Psychology 165 recommended. Taylor

Principles of advertising, including copy preparation, layout, media, campaigns. (See Marketing 159.)

141. Radio News Writing. (3) A. Prerequisite: Journalism 61. Smith

Radio news style, types, and sources; practice in writing and editing news copy for broadcast purposes. (See also Speech 141.)

164, 165, 166. Advanced College Reporting. (1-1-1) A.W.S. Prerequisite: Journalism 61 and approval of instructor. Smith

Supervised work in responsible staff positions on the campus newspaper, involving the writing or handling of news and feature copy.

167, 168, 169. College Editing. (1-1-1) A.W.S. Prerequisite: Journalism 185 and approval of instructor. (The student must hold an executive position on a campus publication.) Smith

Problems in editing and staff organization of college publications.

173. Reporting Public Affairs. (2) A. Prerequisite: Journalism 62. Smith, Wight

Detailed study of writing political news, and covering city and county building and state capitol beats.

174. Critical Writing and Reviewing. (2) S. Prerequisites: Journalism 61 and at least four credit hours in appreciation or history of music, drama, or literature. Smith, Wight

Writing news and comment in the fields of music, drama, and books.

179. City Reporting. (4) A.W.S. Prerequisite: Journalism 62 and approval of head of department. Christensen

An advanced course designed to give experience in gathering and writing news under actual newspaper office conditions. With supervision from staff members of the daily press, students will gather, write and edit news from regular beats in the city of Provo for a minimum of twelve hours per week.

181. Editorials and the Editorial Page. (2) W. Prerequisite: Journalism 61. (Not given this year.) Wight

Study of the editorial and practice in writing it; the editorial page, its policies and makeup.

185. Editing and Makeup. (5) S. Prerequisite: Journalism 61. Smith, Wight

Problems of newspaper desk work; practice in copy reading, proof-reading, headline writing, and newspaper makeup.

188. The Community Newspaper. (2) S. Prerequisite: Journalism 185. (Not given this year.) Smith

The country or neighborhood weekly and its place in community life; editing and business problems. Conferences are arranged with editors of weekly papers.

189. Community Newspaper Practice. (4) A.W.S. Prerequisite: Journalism 188 and approval of instructor. Smith

An interneship course under supervision of the editor of a weekly newspaper in the vicinity of Provo, giving practical experience in reporting, editing, and management functions for a minimum of twelve hours per week.

191, 192, 193. Special Studies in Journalism. (1 or 2 per quarter) A.W.S. Prerequisite: approval of head of department. Smith

Individual study and research in contemporary or historical phases of journalism.

197. Teaching of Journalism. (2) A. Prerequisite: Journalism 185; Education 163, 181. (Not given this year.) Smith

Teaching methods for journalism in the secondary school. Planning and supervising school publications; handling school publicity.

GRADUATE COURSES

205. History of Journalism. (5) W. Smith

206. Journalism and Society. (3) W. Wight

235. Publicity. (5) S. Smith

239. Research in Advertising. (5) A.S. Taylor

291, 292, 293. Special Studies in Journalism. (1 or 2) A.W.S. Smith

297. Teaching of Journalism. (2) A. (Not given this year.) Smith

300. Thesis for Master's Degree. (4 to 6) A.W.S. Individual research under supervision of the student's major professor.

Mathematics

Professors Eyring, Marshall, Hales; Assistant Professor Alleman; Mr. Geertsen, Mr. Miller

Students who major in mathematics have the following courses prescribed: Mathematics 11, 12, 13, 101, 102, 103, 111, 112, 113, 121, 122.

Students majoring in Mathematics and expecting to be high school teachers have the following course prescribed: Mathematics 11, 12, 13, 101, 102, 103, and 111, 112, 113 or 121, 122.

Mathematics 1 may not be included in the major or minor requirements.

Mathematics is one of the subjects comprising the composite majors in Mathematics and the Physical Sciences designed for prospective teachers. (See College of Education.)

Lower Division Courses

1. Algebra. (5) A.W.S. Prerequisite: One year of high school algebra and one year of plane geometry. Staff

3. Solid Geometry. (3) S. Prerequisites: Mathematics 1, or its equivalent, and plane geometry. Staff

11. College Algebra. (5) A.W.S. Prerequisite: Mathematics 1 or its equivalent. Staff

12. Plane Trigonometry. (5) A.W.S. Prerequisite: Mathematics 1 or its equivalent. Staff

13. Analytic Geometry. (5) A.S. Prerequisites: Mathematics 11 and 12. Staff

A study of rectangular co-ordinates, straight line, circle, parabola, ellipse, hyperbola, transfer of co-ordinates, etc.

35. Mathematical Theory of Investments. (3) W. Prerequisite: Mathematics 1, or equivalent. Hoyt

Application of algebra to general business problems such as annuities, amortization, capitalization, depreciation, sinking fund, bond values, and building and loan associations.

Upper Division Courses

101. Differential Calculus. (4) A.W. Prerequisite: Mathematics 13. Staff

An introductory course with numerous applications of the principles to the tracing of curves and the solution of problems from geometry and mechanics.

102. Differential Calculus. (4) W.S. Continuation of Course 101. Staff

103. Integral Calculus. (4) S.A. Prerequisite: Mathematics 102. Staff

The process of integration is developed and applied to problems in geometry, mechanics, and physics.

111. Definite Integrals. (3) A. Prerequisite: Mathematics 103. Marshall

Development of the definite integral as a sum, and the more theoretical aspects of calculus.

112, 113. Differential Equations. (3-3) W.S. Prerequisite: Mathematics 103. Marshall

Differential equations of the first order, linear differential equations, total and partial differential equations with numerous applications to physics. Junior or senior year.

121, 122. Theoretical Mechanics. (5-5) A.W. Prerequisites: Calculus and Physics 41, 42, 43. Alleman

Fundamental principles of mechanics and their applications to physical problems.

Graduate Courses

201. Advanced Calculus. (5) A. Prerequisite: Mathematics 113. Marshall

A review of the fundamental theory of calculus presented with a view to precision of statement and accuracy of proof.

202. Advanced Calculus. (5) W. Marshall

Theory of differential equations, study of simple integrals, multiple integrals, and infinite integrals.

203. Advanced Calculus. (5) S. Marshall

Study of some classes of functions defined by integrals; introduction to calculus of variations, and theory of functions. Note: Courses 201, 202, and 203 will follow an outline somewhat as given in Wood's "Advanced Calculus."

211. Vector Analysis. (3) W. Marshall

Fundamental operations of vector analysis.

212. Vector Analysis. (3) S. Marshall

Application of vector analysis to mechanics, electromagnetic theory.

231, 232. Differential Equations. (3-3) W.S. Prerequisite: Mathematics 113. Staff

292. Readings in Mathematics. (1 to 3) Marshall, Hales

300. Thesis in Mathematics. (4 to 6)

Modern and Classical Languages

Professors Cummings, de Jong, Sperry; Associate Professor Lee; Assistant Professors Valentine, Clark, Rogers.

Every degree of Bachelor of Arts and Master of Arts granted by the University requires the completion of at least 24 hours of a foreign language. This is the main distinguishing feature of these degrees.

The department offers in French, Italian, Portuguese, Spanish, German, and Latin, programs leading to a major and a minor with the bachelor's degree. The requirement for a major is 30 hours of Upper Division credit. There is considerable flexibility in the choice of courses.

The department offers in French, Portuguese, Spanish, and German, programs leading to a Master of Arts degree. The prerequisites are: a minimum of 25 hours of Upper Division credit in the language, and it is strongly recommended that the candidate offer some Upper Division credit in Latin and also in a language related to the major language.

The requirements for the Master of Arts degree are: 1. The passing of a qualifying examination to determine the applicant's capacity to do graduate work of high standard. 2. The completion of at least 25 hours of work in the chosen language. 3. Courses covering the general field of literature and elementary philology. 4. A final written examination on this work. 5. The oral examination given under the direction of the Graduate School. 6. A satisfactory thesis either in literature or the linguistic field.

HUMANITIES AND GENERAL COURSES

The courses in this division do not presuppose the knowledge of any foreign language except in the cases indicated. They are intended to make available to campus and off-campus students courses dealing with man's study of man. Included are courses in the literature of peoples distant in time or space or both. These literatures are approached from various standpoints, sometimes as national literatures, sometimes as world literature of various periods. The fundamental aim is to stress the essential unity of humanity, and to reveal the indebtedness of all mankind to the great minds of the world. Included are also courses in Language Science, inquiries into matters of interpretation and appreciation of literature and ideas. Here belong literary and artistic criticism.

These courses lend themselves to presentation in extension and adult education classes. Only by consent of the executives of the department of English or Modern Languages will credit in the major field be allowed for these courses.

Lower Division

1. **Elements of Language Science.** (3) A. Staff

 Intended for the general student interested in the great fact of language as a human institution. An elementary study of the nature of language, meanings and change of meaning, classification and distribution of languages in the world.

2. Vocabulary Study of Latin Derivatives. (3) W. Staff

Study of the contribution of the Latin language to the vocabularies of English and other European languages, and especially to the vocabularies of science.

3. Vocabulary Study of Greek Derivatives. (3) S. Staff

Study of the contribution of the Greek language to the vocabularies of English and other European languages, and especially to the vocabularies of science.

60. Practical Phonetics. (3) A.W.S. Staff

The elementary principles of speech mechanics in their relation to correct diction. (See also Speech 60, Vocal Music 60.)

Upper Division

101. Introduction to Language Science. (3) W. Prerequisites: Some knowledge of foreign language and consent of the instructor. Staff

An introduction to Linguistics. An account of the nature of language, symbolism, meanings and the principles of language change and development.

111. Theory of Interpretation. (3) A. Prerequisite: consent of the instructor. Cummings

Literary and general criticism through the application of the principles of Linguistics to word-study and text-interpretation. For students of English and foreign literature.

121. The Arts and Principles of Criticism. (3) Prerequisite: consent of the instructor. Staff

125. Aesthetics of Music. (3) S. Prerequisites: Vocal Music and consent of the instructor. de Jong

(See also Theory of Music.)

131, 132. Classical Authors and the History of Ideas. (3-3) A.W. Nibley

133. Medieval Authors and the History of Ideas. (3) S. Staff

135, 136. Modern European Authors and the History of Ideas. (3-3) A.W. Staff

137, 138. Oriental Literature and the History of Ideas. (3-3) A.S. Nibley

139. Contemporary World Literature. (3) S. Staff

141. Literature as a Civilizing Influence. (3) A. Staff

151. The World of French Culture. (3) A. Staff

153. The World of German Literature. (3) A. de Jong

155, 156. The Hispanic World. (3-3) W.S. de Jong

157. The World of Italian Literature. (3) A. Staff

171. The Interchange of Influence of Italian, French, and Hispanic Literature. (3) S. Staff

Graduate Courses

201. Introduction to Language Science. (3) W. Prerequisites: Some knowledge of foreign language and consent of the instructor. Staff

An introduction to linguistics. An account of the nature of language, symbolism, meanings and the principles of language change and development.

211. Theory of Interpretation. (3) A. Prerequisite: consent of the instructor. Cummings

Literary and general criticism through the application of the principles of linguistics to word-study and text-interpretation. For students of English and foreign literature.

221. The Arts and Principles of Criticism. (3) W. Prerequisite: consent of the instructor. Staff

241. Literature as a Civilizing Influence. (3) A. Staff

271. The Interchange of Influence of Italian, French, and Hispanic Literature. (3) S. Staff

FRENCH

Lower Division Courses

1, 2, 3. First Year French. (5-5-5) A.W.S. Staff

Designed for those who have had no French. Pronunciation, reading, the fundamentals of grammar, and the building of a substantial vocabulary.

Upper Division Courses

101, 102, 103. Second Year French. (5-5-5) A.W.S. Prerequisite: French 1, 2, 3, or two units of French in high school. Staff

The various language skills, viz., reading, understanding, speaking, and grammar. Reading, both intensive and extensive.

104, 105, 106. Second Year French. (3-3-3) A.W.S. Prerequisites: French 1, 2, 3, or the equivalent. Staff

Alternative for French 101, 102.

107, 108, 109. Individual Study in French. (2-2-2) A.W.S. Staff

Assignments are made to fit the individual needs of students.

111, 112, 113. Third year French Reading. (3-3-3) A.W.S. Prerequisite: French 102 or the equivalent of 25 hours of French. Staff

These courses include a substantial amount of reading, intensive and extensive, upon which is based abundant conversation.

121, 122, 123. French Composition and Conversation. (3-3-3) A.W.S. Prerequisite: French 102 or 25 hours of French. Staff

133, 134, 135. Introduction to French Literature and Culture. 3-3-3) A.W.S. Prerequisite: Thirty hours of French or the consent of the instructor. Staff

A general view of the literary periods, movements, and social background, with representative readings.

139. Contemporary French Literature. (3) S. (Not given this year.) Staff

141, 142, 143. Masterpieces of French Literature. (3-3-3) A.W.S. Prerequisite: 24 credit hours of French. Staff

Graduate Courses

151. Introduction to French Classicism. (3) Staff

153. Introduction to French Romanticism. (3) Staff

171. French Seminar. (3) S. Staff

221, 222, 223. French Composition and Conversation. (3-3-3) A.W.S. Staff

231. Old French Literature. (3) Staff

232. French Literature of the Renaissance. (3) Staff

233, 234, 235. French Literature of the 18th, 19th, and 20th Centuries. (3-3-3) A.W.S. Staff

239. Contemporary French Literature. (3) Staff

251, 252. French Drama. (3-3) Staff

257, 258. French Novel. (3-3) Staff

281, 282, 283. Corneille, Racine, Moliere. (3-3-3) A.W.S. (Not given this year.) Staff

284. Voltaire. (3) Staff

285. Rousseau. (3) Staff

287. Flaubert and Maupassant. (3) Staff

288. Anatole France. (3) Staff

292. Introduction to Romance Philology. (3) (Not given this year.) Staff

293, 294, 295. History of the French Language. (3-3-3) A.W.S. Staff

296. French Criticism. (3) Staff

297. French Seminar. (3) Staff

300. Research for Master's Thesis. Staff

SPANISH

Lower Division Courses

1, 2, 3. First Year Spanish. (5-5-5) A.W.S. Staff

Designed for those who have not had Spanish. Pronunciation, reading, and the fundamentals of grammar. Special emphasis on the building of a substantial reading vocabulary.

Uper Division Courses

101, 102, 103. Second Year Spanish. (5-5-5) A.W.S. Prerequisites: Spanish 3 or two units of Spanish in High School. Staff

The various language skills, viz., reading, understanding, speaking, grammar. Reading, intensive and extensive.

104, 105, 106. Second Year Spanish. (3-3-3) A.W.S. Prerequisites: Spanish 1, 2, 3 or the equivalent. Staff

Alternative for Spanish 101, 102.

107, 108, 109. Individual Study in Spanish. (2-2-2) A.W.S. Prerequisites: 15 credit hours of Spanish and the consent of the Department Head. Staff

Assignments are made to fit the individual needs of the students.

111, 112, 113. Third Year Spanish. (3-3-3) A.W.S. Prerequisite: Spanish 102 or the equivalent of 25 hours of Spanish. Staff

These courses include a substantial amount of reading, intensive and extensive, upon which is based abundant conversation.

121, 122, 123. Spanish Composition and Conversation. (3-3-3) A.W.S. Prerequisite: Spanish 102 or the equivalent of 25 hours Spanish. Staff

Very comprehensive courses in grammar with abundant drill through oral and written composition.

133, 134, 135. Introduction to Spanish Literature and Culture. (3-3-3) A.W.S. Prerequisite: 30 hours of Spanish or the consent of the instructor. Staff

A general view of the literary periods, movements and social background, with representative readings

139. Contemporary Spanish Literature. (3) A. Staff

141, 142, 143. Masterpieces of Spanish Literature. (3-3-3) A.W.S. Staff

161, 162, 163. Spanish American Literature. (3-3-3) A.W.S. Staff

This sequence is an introduction to the study of the literature of Spanish America from its origins to the present, viewed in three grand divisions corresponding to the Colonial and Revolutionary period, the Romantic and Modernistic period, and the Contemporary period.

171. Spanish Seminar. (3) S. Staff

Graduate Courses

221, 222, 223. Spanish Composition and Conversation. (3-3-3) A.W.S. Staff

233, 234, 235. Spanish Literature of the 17th, 18th and 19th Centuries. (3-3-3) A.W.S. Staff

236. Spanish Literature of the 20th Century. (3) Staff

239. Contemporary Spanish Literature. (3) Staff

241, 242, 243. Masterpieces of Spanish Literature. (3-3-3) A.W.S. Staff

247, 248. Spanish American Literature. (3-3) A.W. Staff

254, 255. Spanish Drama 1800 to the Present. (3-3) Staff

257, 258. Spanish Novel (3-3) A.W. Staff

271. Spanish Seminar. (3) Staff

281. Cervantes and Don Quijote. (3) A. Staff

292. Introduction to Romance Philology. (3) Staff
(See also French 292.)

293, 294. History of the Spanish Language. (3-3) A.W. Cummings

300. Research for Master's Thesis. (2-2-2) Staff

PORTUGUESE

Lower Division Courses

1, 2, 3. First Year Portuguese. (5-5-5) A.W.S. de Jong
A beginning course. Pronunciation, conversation, reading, and the fundamentals of grammar. Special attention to Portuguese as the Language of Brazil.

Upper Division Courses

101, 102, 103. Second Year Portuguese. (5-5-5) A.W.S. Prerequisite: Portuguese 3 or the equivalent. de Jong
The various language skills, viz., reading, understanding, speaking, grammar. Reading intensive and extensive.

104, 105, 106. Second Year Portuguese. (3-3-3) A.W.S. Prerequisite: Portuguese 1, 2, 3 or the equivalent. Staff
Alternative for Portuguese 101, 102.

107, 108, 109. Individual Study in Portuguese. (3-3-3) A.W.S. Prerequisites: 15 hours of Portuguese and the consent of the Department Head. Staff
Assignments are made to fit the individual needs of the student.

111, 112, 113. Third Year Portuguese. (3-3-3) A.W.S. Prerequisite: Portuguese 102, 25 hours of Portuguese or the equivalent. de Jong

These courses include a substantial amount of reading, intensive and extensive, upon which is based abundant conversation.

121, 122, 123. Portuguese Composition and Conversation. (3-3-3) A.W.S. Prerequisites: Portuguese 102, 25 hours of Portuguese or the equivalent. de Jong

141, 142, 143. Masterpieces of Portuguese Literature. (3-3-3) A.W.S. de Jong

Graduate Courses

221, 222, 223. Portuguese Composition and Conversation. (3-3-3) A.W.S. de Jong

237. Contemporary Brazilian Literature. (3) de Jong

239. Contemporary Portuguese Literature. (3) S. de Jong

231. Introduction into Portuguese Literature. (3) A. de Jong

261. Introduction into Brazilian Literature. (3) de Jong

292. Introduction to Romance Philology. (3) S. de Jong

297. Portuguese Seminar. (3) W. de Jong

ITALIAN

Lower Division Courses

1, 2, 3. First Year Italian. (5-5-5) A.W.S. Staff

Special attention to accurate pronunciation for the benefit of the students of Music and Art for whom Italian has special interest and value. Grammar and easy reading carefully graded.

Upper Division Courses

101, 102, 103. Second Year Italian. (5-5-5) A.W.S. Prerequisite: Italian 3 or the equivalent. Staff

Reading, intensive and extensive.

104, 105, 106. Second Year. (3-3-3) A.W.S. Prerequiste: Italian 1, 2, 3, or the equivalent. Staff

Alternative for 101, 102.

107, 108, 109. Second Year, Individual Study in Italian. (3-3-3) A.W.S. Staff

Given only by the consent of the instructor.

111, 112, 113. Third Year Italian. Reading. (2-2-2) A.W.S. Staff

Germanic Languages

GERMAN

Lower Division Courses

1, 2, 3. First Year German. (5-5-5) A.W.S. Staff

Designed for those who have not had German. Pronunciation, reading, and the fundamentals of grammar, the building of a substantial vocabulary.

Upper Division Courses

101, 102, 103. Second Year German. (5-5-5) A.W.S. Prerequisite: German 1, 2, 3 or equivalent Staff

104, 105, 106. Second Year German. (3-3-3) A.W.S. Prerequisite: German 1, 2, 3 or equivalent Staff

Alternative for German 101, 102. Second year work embraces the various language skills, viz., reading, understanding, speaking, and gramar. Reading both intensive and extensive.

107, 108, 109. Individual Study in German. (2-2-2) A.W.S. Prerequisites: 15 hours of German and consent of the department head. Staff

Assignments are made to fit the individual needs of the student.

111, 112, 113. Third Year German Reading. (3-3-3) A.W.S. Prerequisites: German 102, 25 hours of German or the equivalent. Staff

121, 122, 123. German Composition and Conversation. (3-3-3) A.W.S. Prerequisites: German 102, 25 hours of German or the equivalent. Staff

133, 134, 135. Introduction to German Literature and Culture. (3-3-3) A.W.S. Prerequisite: 30 hours of German or the consent of the instructor. **Staff**

A general view of literary periods, movements, and social background, with representative readings.

139. Contemporary German Literature. (3) S. Staff

141, 142, 143. Masterpieces of German Literature. (3-3-3) A.W.S Staff

167, 168, 169. Scientific German. (3-3-3) A.W.S. Staff

197. German Seminar. (2) S. Staff

Graduate Courses

221, 222, 223. German Composition and Conversation. (3-3-3) A.W.S. Staff

233, 234, 235. History of German Literature. (3-3-3) A.W.S. Staff

239. Contemporary German Literature. (3) A. Staff

251, 252. German Drama. (3-3) W.S. Staff

257, 258. German Novel, 1800 to Present. (3-3) A.W. Staff

259. German Novelle. (3) S. Staff

281. Lessing. (3) A. **Staff**

282. Schiller. (3) W. Staff

283. Goethe. (3) S. Staff

284. Kleist and Grillparzer. (3) A. Staff

285. Hebbel and Ludwig. (3) W. Staff

286. Hauptmann and Sudermann. (3) S. Staff

292. Gothic. (5) A. Staff

Introduction to the study of Gothic. General introduction to Germanic Philology.

293. Old High German. (5) W. Staff

294. Middle High German. (5) S. Staff

297. German Seminar. (2) Staff

300. Research for Master's Thesis. Staff

Classics

LATIN

Lower Division Courses

1, 2, 3. First Year Latin. (5-5-5) A.W.S. Staff

Designed for those who have not had Latin. Mastery of pronunciation, declensions and conjugations. Correlation of Latin originals with English derivatives. Graded reading. Characteristics of Roman civilization.

40. Pre-Legal Latin. (2 or 3) A. Staff

Recommended for pre-legal students. Admission by permission of instructor.

41, 42. Premedical Latin and Greek. (2 or 3 — 2 or 3) W. Staff

Recommended for pre-medical students. Admission by permission of instructor.

Upper Division

101, 102, 103. Second Year Latin. (5-5-5) A.W.S. Prerequisites: Latin 3 or 2 years of high school Latin. Staff

A comprehensive study of grammar, composition. A continuation of the study of the influence of Latin on English. Readings from the classics.

104, 105, 106. Second Year Latin. (3-3-3) A.W.S. Prerequisites: same as above. Staff

Alternative for Latin 101, 102.

107, 108, 109. Individual Study in Latin. (2-2-2) A.W.S. Prerequisites: 15 hours of Latin and the consent of the instructor. Staff

194, 195, 196. The Latin Fathers. (3-3-3) A.W.S. Staff

(See Division of Religion, Biblical Languages.)

197, 198, 199. Medieval Latin. (3-3-3) A.W.S. Staff

(See Division of Religion, Biblical Languages.)

GREEK

For further detail on these courses in Greek see Division of Religion, Biblical Languages.

Upper Division Courses

164, 165, 166. Second Year Modern Greek. (3-3-3) A.W.S. Staff

171, 172, 173. Elementary Greek. (3-3-3) A.W.S. Staff

174, 175, 176. Second Year Greek. (3-3-3) A.W.S. Staff

187, 188, 189. Elementary Modern Greek. (3-3-3) A.W.S. Staff

191, 192, 193. Intermediate Modern Greek. (3-3-3) A.W.S. Staff

Semitics

For further detail on these courses see Division of Religion, Biblical languages. The courses in Biblical languages carry religious credit and fulfill the language requirements for the A.B. degree.

HEBREW

151, 152, 153. Elementary Hebrew. (5-5-5) A.W.S. Staff

154, 155, 156. Intermediate Hebrew. (3-3-3) A.W.S. Staff

157, 158, 159. Advanced Hebrew. (2-2-2) A.W.S. Staff

ARAMAIC

161, 162, 163. Biblical Aramaic and the Targums. (2-2-2) A.W.S. Prerequisites: Hebrew 151, 152, 153. Staff

SYRIAC

201, 202, 203. Elementary Syriac. (2-2-2) A.W.S. Prerequisites: Hebrew 151, 152, 153. Staff

Elements of the Grammar and reading from the Syriac New Testament.

204, 205, 206. Intermediate Syriac. (2-2-2) A.W.S. Staff

AKKADIAN

211, 212, 213. Elementary Akkadian. (2-2-2) A.W.S. Staff

EGYPTIAN

221, 222, 223. Elementary Egyptian. (2-2-2) A.W.S. Staff

SLAVIC AND ORIENTAL

RUSSIAN

Lower Division Courses

1, 2, 3. First Year Russian. (5-5-5) A.W.S. Staff

Designed for those who have had no Russian. Pronunciation, reading, and the fundamentals of grammar, and the building of a substantial reading vocabulary.

Upper Division Courses

101, 102, 103. Second Year Russian. (5-5-5) A.W.S. Prerequisites: Russian 1, 2, 3 or the equivalent. Staff

The various language skills, viz., reading, understanding, speaking, and grammar. Reading, both intensive and extensive.

107, 108, 109. Individual Study in Russian. (2-2-2) A.W.S. Prerequisites: Certain elementary work in Russian and the consent of the instructor. Staff

JAPANESE

1, 2, 3. First Year Japanese. (5-5-5) A.W.S. Prerequisites: The consent of the head of the department on the basis of an estimate of the student's need and capacity to pursue the study of the language. Success in other foreign language work is considered. Definite announcements that these courses will begin this year will be made through the press and otherwise. Staff

Constant study of the writing systems. Grammar and vocabulary learning. Easy conversation and composition throughout. The aim is the preparation of persons who will work among Japanese people.

Physics

Professors Eyring, Marshall, Hales; Assistant Professor Alleman; Mr. Geertsen, Mr. Boel

Students who expect to study Engineering, Chemistry, or who are planning to major or minor in the Department of Physics should begin their study of Physics by electing courses 41, 42, and 43.

Students who expect to study medicine or major in the fields of biological science should begin their study of Physics by electing courses 31, 32, and 33.

Non-science students may elect with profit courses 1, 2, 16, 21, and 26, which may be taken without prerequisite and which are organized with the view of giving the student an appreciation of his physical environment.

Students majoring in Physics have the following courses prescribed: Physics 41, 42, 43, 121, 122, 195, 196, 197, and at least fifteen additional hours selected from the upper division courses in the department.

Students majoring in Physics and expecting to be high school teachers have the following courses prescribed: Physics 26, 41, 42, 43, 121, and at least twelve hours of additional courses selected from the upper division of the department.

Physics is one of the subjects comprising the composite major in Mathematics and the Physical sciences designed for prospective teachers. (See College of Education.)

Lower Division Courses

1. **A Survey Course in Physics.** (3) A. Eyring
 This is an elementary course designed for non-science students who wish to obtain training in the scientific aspects of force and motion, energy and work, simple machines, heat as it pertains to the household, and electricity. This course will be of special interest to students of Physical Education and Home Economics. Courses 1 and 2 should be elected by the non-science student if he wishes an orientation in the whole field of Physics.

2. **A Survey Course in Physics.** (3) W. Eyring
 This is an elementary course designed for non-science stu-

dents who wish to obtain training in the science of sound as it pertains to speech, music, and auditorium acoustics, and for the students who wish to obtain training in the scientific aspects of light and color. This course and Course 1 will give to the non-science student an orientation in the field of Physics.

16. Description Astronomy. (3) S. Eyring

This course is designed for those wishing a general knowledge of the facts, theories, and methods of astronomy. Frequent use will be made of the University Observatory on University Hill. Hales

21. Weather and Climate. (4) W. Hales

A study of the earth's atmosphere and the problems associated with climate and weather forecasting.

26. Photography. (4) A.S. Hales

Lectures on the theory and art of photography; laboratory exercises in photographic manipulation, determination of the characteristics of photographic materials, color, sensitivity, etc. (See Journalism 6.)

31. General Physics. Mechanics and Sound. (5) A. Prerequisites: Mathematics 1, or its equivalent. Eyring

Courses 31, 32, and 33 constitute a general college course in physics especially designed to meet the needs and requirements of pre-medical students. Majors in the fields of the biological sciences will find the subject matter of these courses selected to meet their needs.

32. Heat and Light. (5) W. Continuation of Physics 31. Eyring

33. Electricity. (5) S. Continuation of Physics 32. Eyring

41. General Physics. Mechanics and Sound. (5) A. Prerequisites: Mathematics 11 and 12. Hales

Courses 41, 42, and 43, constitute a general college course in physics. This general course will satisfy the requirements in Physics for engineering, and it is a prerequisite for all the specialized courses in physics.

42. Heat and Light. (5) W. Continuation of Physics 41. Hales

43. Electricity. (5) S. Continuation of Physics 42. Hales

Upper Division Courses

121, 122. Mechanics. (5-5) A.W. Prerequisites: Calculus and Physics 41, 42, 43. Alleman

Fundamental principles of mechanics and their application to physical problems.

131. Thermodynamics. (5) A. Prerequisites: Calculus and Physics 41, 42, and 43. Hales

A study of the laws of thermodynamics and their application to numerous physical and chemical phenomena.

132. Physics of the Air. (5) W. Prerequisite: Calculus and Physics 41, 42, and 43. Hales

The physics of the earth's atmosphere. A study of the causes which produce variations in the pressure, temperature, and humidity of the air; and their influence upon weather and climate.

133. Synoptic Meteorology. (5) S. Hales

A continuation of course 132, with special emphasis placed upon the Norwegian Polar Front theory of weather analysis. Daily weather maps, including all frontal data, atmospheric cross sections, and various thermodynamic charts, will be constructed as part of the laboratory work.

141, 142, 143. Electricity and Magnetism. (5-5-5) A.W.S. Prerequisites: Calculus and Physics 41, 42, and 43. Marshall

A study of electronics, the vacuum tube, and D.C. and A.C. circuit theory and measurements.

151, 152. Atomic and Nuclear Physics. (5-5) A.W. Prerequisites: Calculus and Physics 41, 42, and 43. Hales

A study of the structure of the atom as revealed by X-rays, radioactivity, spectroscopy, and related subjects.

161. Sound. (5) S. Prerequisites: Physics 121 and 122. Eyring

Speech, hearing, sound transmission, and radiation, and acoustics of auditoriums.

171. Experimental Optics. (5) S. Prerequisites: Calculus and Physics 41, 42, and 43. Marshall

During the first part of the course, experiments, outlined in Taylor's Manual of Optics, will be performed, and during the last, special work in the echelon and concave grating will be given.

181. Laboratory Arts. (2) A. Staff

Processes connected with the construction and use of apparatus in the physical laboratory.

183. Advanced Physical Measurements. (1 to 3) A.W.S. Eyring, Marshall, Hales, and Alleman

Precision measurements involving special laboratory techniques and the solution of some simple research problem. Required of all majors in Physics in senior year.

187. Advanced Photography. (2) W. Prerequisites: Calculus, Physics 26, 41, 42, 43, and general Chemistry. Hales

A laboratory course in the more advanced photographic principles including sensitometry, physical development, toning, natural color printing, etc.

191. Readings in Modern Physics. (1 to 3) A.W.S.
Eyring, Marshall, Hales, and Alleman

A reading course designed to acquaint the student with new material, which may not have been included in the regular courses.

195, 196, 197. Seminar. (1-1-1) A.W.S.
Eyring, Marshall, Hales, and Alleman

A survey of the physical theories and topics in modern research. A course for seniors in which the student is aided to integrate the specialized courses.

Graduate Courses

201, 202. Introduction to Modern Physics. (5-5) A.W. Marshall

A study of modern physics, including such topics as quantum theory, spectroscopy, and atomic structure, etc.

203. Quantum Mechanics. (5) S. Marshall

205, 206, 207. Introduction to Theoretical Physics. (5-5-5) A.W.S.
Hales

An introductory study of the mathematical basis and development of the fundamental laws and theories of physics.

210, 211, 212. Classical Experiments. (2-2-2)
Eyring, Marshall, Hales, and Alleman

291. Readings in Modern Physics. (1 to 3)
Eyring, Marshall, Hales, and Alleman

295, 296, 297. Seminar. (1-1-1) A.W.S.
Marshall, Hales, and Alleman

300. Thesis in Physics. (4 to 6) Staff

PHYSICS

Aeronautical Science

Lower Division Courses

22. Navigation. (5) W. Hales

Problems associated with dead reckoning, radio, and celestial navigation will be emphasized.

35. Civil Pilot Training and Air Regulations. (0) A.S. Hales

This course includes the elementary theory of flight, general service to aircraft engines, and civil air regulations as required for C.A.A. private pilot certificates.

36. Meteorology and Navigation. (5) W. Hales

The problems in weather and navigation met by the pilot will be studied. The course includes all theory required for C.A.A. examination for private pilot certificates.

37. Aerodynamics and Airplane Structures. (4) A.S. Hales

This course includes the elementary theory of Aerodynamics as required for secondary C.P.T. A number of wind tunnel experiments will be performed by the student.

38. Airplane Engines. (4) A.S. Hales

A study of types of aircraft engines and the theory back of their operation, including timing, ignition, carburetion, supercharger, etc.

39. Flight Training. (1/3-2/3-3/3) A.W.S. Hales

Arrangement will be made by the student to take this flight training under the direction of the Provo Flight Service. Credit will be given according to the hours actually completed in the air and the C.A.A. pilot's certificates achieved.

Political Science

Professor Jensen; Assistant Professors Carr, Madsen, J. R. Clark III; Mr. Sandgren

Requirements for a Major in Political Science

A Political Science Major requires the completion of 45 hours of work in this field. Political Science 10, 11, and 12, are required

courses and should be completed by the end of the sophomore year. The additional work shall consist of upper division courses which will be selected by the student with the consent of the major professor.

A student deciding to major in Political Science must immediately consult the head of the department who will determine in consultation with the student upon the minor field of work.

Lower Division Courses

10. National Government of the United States. (5) A. Carr, Grow

The historical development of the American Government; origin and growth of the constitution; constitutional rights of the citizen; a detailed study of the executive, legislative, and judicial departments of the national government.

11. State and Local Government in the United States. (5) W. Carr, Grow

The nature of the federal government; the evolution of states from territories; place of the states in the nation; a study of the executive, legislative, and judicial branches of state government.

12. Comparative World Governments. (5) S. Carr, Grow

A study of the organization, operation, and practices of the principal world governments.

50. Cultural Geography. (5) S. Madsen

A study of the cultural areas of the world with special emphasis on the cultural regions of North America.

60. History of the British Empire Since 1783. (3) A. Carr

The evolution and growth of the British Empire; the development of the British Commonwealth of Nations; recent economic, political, and constitutional problems.

Upper Division Courses

100. Principles of Political Science. (3) A. Carr

A systematic study of the principles of political science; the scope and methods of politics; the origin, basis, and nature of the state; sovereignty; the structure and province of government; citizenship and nationality.

104. Ancient and Medieval European Political Philosophy. (3) A. Carr

A study of political theory as developed during ancient and medieval times.

105. Modern European Philosophy. (3) W. Carr

An examination of modern and contemporary political philosophy.

106. American Political Philosophy. (3) S. Carr

A study and interpretation of American political ideas from the colonial period to the present with an examination of their influence in the development of American history and government.

110. Political Parties and Party Government. (3) S. Carr

A study of the organization and methods of action of political systems in the United States; the development of the party system; the party system in leading European countries.

115. Public Opinion. (3) (Not given in 1948-49.)

120. Legislative Processes; National and State. (3) (Not given in 1948-49.)

125. Municipal Government. (3) A. Jensen

A study of municipal growth and development in the United States and in some of the principal European countries. Attention is given to municipal structure, organization, powers, and administration.

130. Public Administration. (3) A. Jensen

An examination of the field of public administration emphasizing the relationship of the administration to other branches of government, the organization and personnel of administrative services, types of control of the administration, central and local administration, etc.

135. American Constitutional Development. (3) (Not given in 1948-49.)

A course dealing with the history and development of the Constitution of the United States, a study of its fundamental provisions, their interpretation, and their application in the functioning of the American system of government.

140. Democracies and Totalitarian Governments. (3) (Not given in 1948-49.)

145. The Government of England. (3) (Not given in 1948-49.)

148. The Pacific Area. (3) W. Carr

A study of the economic, political, and colonial problems of this area, with the resulting international claims and rivalries.

157. Commercial Law. (4) A. Sandgren

Fundamental legal principles and institutions; the formation, operation and effect, and performance of contracts.

158. Commercial Law. (4) W. Sandgren

A study of the laws governing (a) negotiable instruments and the rights and liabilities of parties thereto, (b) real and personal property, and (c) sales and bailments of personal property.

159. Commercial Law. (4) S. Sandgren

A study of the law governing relationships arising out of business associations: Agency, Partnerships, and Corporations will be studied by an examination of the leading cases decided by the courts.

160. History of American Foreign Policy. (3) W. Prerequisite: History 20, 21. Jensen

This course traces the history of American foreign relations from the colonial period to the present. Attention is given to the principal issues of diplomatic controversy and settlement.

165. The Practice of Diplomacy. (3) (Not given in 1948-49.)

170. International Relations. (3) W. Carr

A study of the major present day problems and developments in the field of international relations.

175. International Organization and Government. (3) S. Carr

180. International Law. (3) A. Jensen

A study of the sources, principles, and sanctions of international law; the law of peace, war, and neutrality. Problems growing out of World Wars I and II.

186. Constitutional Law of United States. (3) A. Jensen

The doctrine of judicial review, jurisdiction of federal courts, citizenship, personal liberty, due process and equal protection of the laws, police power, eminent domain, taxation, regulation of commerce, impairment of obligation of contracts.

190, 191, 192. Seminar. Staff

193, 194, 195. Research. Staff

Graduate Courses

200. Principles of Political Science.	Carr
204. Early European Political Philosophy.	Carr
205. Modern European Political Philosophy.	Carr
206. American Political Philosophy.	Carr
210. Political Party Systems in the United States and in European Countries.	Carr
225. Municipal Problems.	Jensen
230. Public Administration.	Jensen
235. American Constitutional Development.	Staff
245. English Government and Politics.	Staff
248. The Pacific Area.	Carr
257, 258, 259. Commercial Law.	Sandgren
260. History and Problems of American Foreign Policy.	Jensen
270. International Relations and World Politics.	Carr
275. International Organization and Government.	Carr
280. International Law.	Jensen
286. Constitutional Law of the United States.	Jensen
290, 291, 292. Seminar.	Staff
293, 294, 295. Research.	Staff
300. Thesis.	Staff

Psychology

Professors Poulson, Lambert; Associate Professor Allen

All students in the university may find in this department courses of importance to their personal development and often, also, courses of vital importance to their professional training. They may find here groups of courses designed to serve their special interests in teaching, homemaking, business, industry, personnel work, social work, counseling, law, medicine, nursing, or graduate study in psychology.

A major in psychology requires a total of from 36 to 40 approved hours. The most fundamental courses to be included are Psychology 11, 152, 155 (or 156), 171, and 190. The next most important courses for majors and minors are Psychology 120, 139, 173, 183, 187 and two psychology seminars. Also see the department head about appropriate supporting work in other departments.

Lower Division Courses

1. Effective Study. (2) A.W.S. Staff

A practical course in such things as budgeting time, note-making, memorizing, straight thinking, etc.

11. General Psychology. (5) A.W.S. Poulson, Allen, and Staff

Foundation course covering the essentials of the whole field of modern scientific psychology. An average of two hours each week will be devoted to laboratory demonstrations and experiments.

12. Applied Psychology. (3) A.W.S. Staff

An elementary survey of certain applications of psychological principles in everyday life. May either precede or follow Psychology 11.

54. Experiments in General Psychology. (2) A. Two lectures or demonstrations and four additional hours of laboratory work weekly. Allen

An elementary laboratory course to be taken with or subsequent to Psychology 11.

Upper Division Courses

120. Social Psychology. (5) A. Prerequisite: Psychology 11 or equivalent. Poulson

Fundamental psychological consideration of such topics as: social factors in individual development; language development; suggestion and suggestibility; frustration and aggression; role and status; leadership; prejudice; propaganda and counterpropaganda; religion; war and peace.

122. Child Psychology. (3) S. Prerequisite: Psychology 11 or equivalent. Poulson

Psychological consideration of child growth and development until puberty. (See also Household Administration 122.)

123. Psychology of Adolescence. (2) S. Prerequisite: Psychology 11 or equivalent. Poulson

Development from puberty to maturity. Critical examination of certain hypotheses concerning mental development. Important educational implications.

125. Mental Hygiene. (3) W. Prerequisite: Psychology 11 or equivalent. Poulson

Intended to yield insight toward the prevention and amelioration of mental and personal difficulties. Important for prospective parents, teachers, and social workers. (See also Philosophy of Education 169, Health 125, and Household Administration 125.)

129. Educational Psychology. (3) A.W. Prerequisite: Psychology 11 or equivalent. Allen

A consideration of basic facts of learning, individual differences, mental development, and personality and their application to certain problems of education.

130. Clinical Psychology. (3) S. Prerequisite: Psychology 11 or equivalent. Allen

A consideration of diagnostic or remedial procedures for personality and behavior difficulties of children primarily. Recommended for social workers, prospective parents, and teachers.

131. Advanced Clinical Psychology. (2) S. Prerequisite: Psychology 130 and consent of instructor. Allen

Survey of psychotherapy, non-directive counseling, psychoanalytic techniques, group therapy, play therapy, psychodrama, directive counseling.

139. Abnormal Psychology. (3) W. Prerequisite: Psychology 11 and consent of instructor. Allen

Theories of mental disturbances, implications for normal psychology, description of abnormal and unusual psychological functions, psychoneuroses and psychoses; modern therapeutic treatments.

135. Clinical Practice. (2) Prerequisites: Psychology 130, 171, 173. (Not given this year.) Allen

Actual testing, diagnosis, and recommending of treatment of individuals referred by child welfare agencies.

152. Elementary Statistics. (3) W. Staff

153. Statistical Methods. (3) S. Prerequisite: Psychology 152. Staff

155. Experimental Psychology. (3) W. Three lectures or demonstrations and six additional laboratory hours per week. Prerequisite: Psychology 11. Allen

Consideration of such fields as learning, memory, problem solving, work, and fatigue.

156. Experimental Psychology. (3) S. Three lectures or demonstrations and six additional laboratory hours per week. Prerequisite: Psychology 11. Allen

Consideration of such fields as sensation, perception, emotional expression, and reaction time.

162. Psychology for Nurses. (3) Psychology 11, or equivalent, recommended, as a foundation. (Not given this year.) Staff

Special applications of psychology in patient-nurse relationships.

164. Industrial Psychology. (3) A. Prerequisite: Psychology 11, or equivalent. Poulson

Special applications of psychology in selection, placement and training of employees. Also important uses in relation to motivation, morale, safety, efficiency, etc. (See also Accounting and Business Administration 164.)

165. Business Psychology. (3) S. Prerequisite: Psychology 11 or equivalent. Poulson

Psychological aspects of business especially in advertising, personal selling and research techniques in these fields. (See also Accounting and Business Administration 165.)

167. Personnel Psychology. (3) Prerequisite: Psychology 11 or equivalent. (Not given this year.) Staff

Selection, application, and interpretation of psychological tests; personnel relationships; job analysis; personality problems of the worker. (See Business Administration 167.)

171. Psychological Tests. (3) A. Prerequisite: Psychology 11. Allen

History and present status of psychological tests; emphasis on work of Binet; meaning of standardization; survey of various tests and results of testing.

173. Individual Test Practice. (3) W. Prerequisite: Psychology 171. One lecture, approximately eight hours laboratory weekly. Allen

Supervised practice in administration of Stanford-Binet and other individual tests.

178. Group Tests. (2) S. Prerequisite: Psychology 11. Psychology 152, 153 and 171 recommended. (Not given this year.) Allen

Survey of group tests of intelligence, personality, vocational interests, and special aptitudes; emphasis on criteria for selecting and evaluating tests and interpretation of results; statistical treatment of results.

179. Group Test Practice. (2) A. Prerequisite: Psychology 171 or 178. Allen

Supervised drill in administering, scoring, and interpreting results of group and individual tests not of the Binet type.

180. Comparative Psychology. (3) S. Prerequisite: Psychology 11. (Not given this year.) Allen

Survey of methods and results of comparative research on animal learning, motivation, individual differences; correlation of behavior with structure; implications for human psychology.

181. Physiological Psychology. (3) S. Prerequisite: Psychology 11. Allen

Development of nervous system; nature of nervous impulse; endocrine functions, effect of drugs; neurological basis of learning; correlation of structure with function; sensory processes.

183. Psychology of Personality. (3) S. Prerequisite: Psychology 11. (Not given this year.) Staff

Historical background; problems of traits, types, organizations of personality; genetic and cultural determinants; marks of mature personality; modification of personality.

185. Psychology of Motivation. (3) S. Prerequisite: Psychology 11. Staff

Nature of motivation, instinct problem; review of research on animals, children, and abnormals; nature of conflict; role of habit and learning; question of personal freedom and management.

187. History and Modern Viewpoints. (5) W. Prerequisites: Psychology 11 and at least one experimental course in psychology. Poulson

Historical background of present-day psychology and a comparative study of several of the important contemporary schools of psychology.

190. Advanced General Psychology. (5) W. Prerequisites: Psychology 11 and at least one experimental course in psychology. (Not given this year.) Poulson

Rather intensive consideration of the facts and principles of general psychology with special emphasis upon certain topics of interest to advanced students.

192, 193. Junior Psychology Seminar. (1-1) A.S. Required of all upper-division psychology majors. May audit without credit during one of the quarters. Staff

Reports and discussion of special topics and current psychological literature.

195, 196. Senior Psychology Seminar. (1-1) A.S. Required of all upper division psychology majors. May audit without credit during one of the quarters. Staff

Reports and discussion of special topics and current psychological literature.

Graduate Courses

220. Social Psychology. (5) A. Prerequisite: Ten upper division credit hours in psychology. Poulson

222. Child Psychology. (3) S. Prerequisite: Psychology 11 or equivalent. Poulson

223. Psychology of Adolescence. (2) S. Prerequisite: Psychology 11 or equivalent. Poulson

225. Mental Hygiene. (3) W. Prerequisite: Psychology 11 or equivalent. Poulson

229. Educational Psychology. (3) A.W. Prerequisite: Psychology 11 or equivalent. Allen

230. Clinical Psychology. (3) S. Prerequisite: Psychology 11 or equivalent. Allen

231. Advanced Clinical Psychology. (2) S. Prerequisite: Psychology 130 or equivalent. Allen

235. Clinical Practice. (2) Prerequisites: Psychology 130, 171, 173 or equivalent. (Not given this year.) Allen

239. Abnormal Psychology. (3) W. Prerequisite: Psychology 11 and consent of instructor. Allen

253. Statistical Methods. (3) S. Prerequisite: Psychology 152. Staff

255. Experimental Psychology. (3) W. Prerequisite: Psychology 11 and 155 or 156. Allen

256. Experimental Psychology. (3) S. Prerequisite: Psychology 11 and 155 or 156. Allen

265. Business Psychology. (3) S. Prerequisite: Psychology 11 and 155 or 156. Poulson

280. **Comparative Psychology.** (3) S. Prerequisite: Ten upper division credit hours in psychology. (Not given this year.) Allen

281. **Physiological Psychology.** (3) S. Prerequisite: Ten upper division credit hours in psychology. Allen

283. **Psychology of Personality.** (3) S. Prerequisite: Ten credit hours in psychology. Staff

285. **Psychology of Motivation.** (3) S. Prerequisite: Ten credit hours in psychology. Staff

287. **History and Modern Viewpoints.** (5) W. Prerequisite: Ten upper division credit hours in psychology. Poulson

290. **Advanced General Psychology.** (5) W. Prerequisite: Ten upper division credit hours in psychology. Poulson

295-296. **Graduate Psychology Seminar.** (1-1) A.S. Staff

Required of all graduate psychology majors. May audit without credit during one of the two quarters.

300. **Thesis in Psychology.** (4 to 6) A.S. Prerequisite: Consent of head of department. Staff

Research work in the preparation of a Master's Thesis.

Sociology

Professors Ballif, Bradford; Professors Emeritus Swensen, Boyle; Assistant Professor Payne; Mr. Canning, Mr. Smith

As a prerequisite to any upper division course in the department, a student must take either Sociology 11 or 12.

Majors in the department are required to take courses 11, 12, 102, 104, 182, 186, and 190 or 192, and to present total sociology credit of 40 hours or more.

Recommended courses, beyond those required, are listed below for each of several goals that sociology majors might have in mind:

General Cultural education—any or all courses.

Teaching—124, 128, 136, 152, 156, 160, 170, 172, 176.

Social Work—116, 124, 128, 132, 134, 136, 138, 144, 146, 148, 150, 170, 172.

Administration—114, 116, 118, 132, 134, 136, 138, 150, 172. Research and/or graduate study—114, 118, 150, 152, 156, 160, 170, 172, 178.

Majors and minors are not only advised to take as many courses in the department as they can, but to broaden their background with courses in related fields, such as Economics, History, Political Science, Psychology, Zoology, Geography, Geology, Philosophy of Education, etc.

Sociology is one of the subjects comprising the composite major in Social Science designed for prospective teachers. (See College of Education.)

Lower Division Courses

11. Introductory Sociology. (5) A.W.S. Staff

This course is designed to give the groundwork for all sociological study. It presents a general view of social organization, social forces, and a practical working theory of the nature of society.

12. Social Problems. (5) A.W.S. Staff

This course is a study of the forces within society which produce disorganization and develop social problems. Specific problems such as crime, poverty, political corruption, racial conflicts, mental illness, etc., will be discussed.

Upper Division Courses

102. Development of Sociological Theory. (3) W. Bradford

An analytical study of leading sociological theories, commencing with the Greeks and considering developments through the early Christian, Medieval, and modern periods.

104. Contemporary Sociological Theory. (3) S. Bradford

Emphasis is given to major developments in contemporary sociology. The contributions of leading present-day sociologists are analyzed.

108. Cultural Anthropology. (3) W. Bradford

Consideration is given to the institutions and structures of various societies. The meaning and content of culture is analyzed.

110. Principles of Sociology. (3) W. Swensen

An analysis of the various principles upon which society operates.

114. Social Psychology. (3) W. Ballif

A study of the social factors which influence human behavior. This course attempts to evaluate the social significance of mob-mind, propaganda and other group phenomena.

116. Social Control. (3) S. Swensen

A study of the means of control of the individual by groups. Such agencies as public opinion, belief, social suggestions, ceremony, personal ideals, etc., will be studied in detail.

118. Social Ethics. (3) W. Lloyd

(See also Philosophy of Education 190.)

124. Crime and Delinquency. (3) A. Ballif

A study of the nature and extent of criminal behavior, including the causes of crime and the treatment of offenders.

128. Race Relations. (3) S. Ballif

A study of the basic processes operating in present-day inter-relations of racial groups. Attention is given to problems of the second generation arising out of conflicting cultural backgrounds.

132. Labor Problems. (3) A. Miller

(See also Economics 161.)

134. Social Legislation. (3) S. Ballif

A study of the underlying principles and techniques of social legislation. A consideration of social legislation now operative, with special reference to needed measures.

136. Community Organization and Leadership. (3) A. Ballif

Problems of community life and action, and the methods of promoting them through organization and leadership.

138. The Cooperative Movement. (2) A. Ballif

The meaning of cooperation and the development of the cooperative movement. The course logically includes consideration of the types of cooperatives, the problems that have grown up with them and a consideration of the principles upon which cooperatives work.

140. Social Structure in the United States. (3) S. Bradford

This course will analyze some of the distinctive features of the major social institutions of the United States. Special attention will be given the kinship, occupational, property and authority patterns.

144. An Introduction to Social Work. (2) A. Ballif

An introductory survey of the various fields and methods of social work; the extent of social work and its implications for related professions.

146, 148. Social Case Work. (2) W. Staff

Principles and practices of case work with the maladjusted and the dependent.

150. Human Ecology. (2) W. Ballif

A study of the spacial relationship of man as determined by his adaptation to physical and social environments. Discussions will center on such subjects as isolation, interaction, segregation, invasion, etc.

152. Population. (3) A. Bradford

Deals with theories of population increase as well as with problems relating to composition, distribution, density, and migration. The qualitative and quantitative aspects of suggested population policies are analyzed.

156. Rural Sociology. (3) W. Bradford

An analysis of the sociology of rural life. Attention is given to rural associations, organizations, population, and social processes. Special consideration is accorded certain rural social problems.

160. Urban Sociology. (3) S. Bradford

A study of the evolution and problems of urban life. Special emphasis is accorded the institutional aspects of the family, occupational, political, and class and caste structures in cities. Consideration is also given deviant behavior patterns and attempted measures of reintegration and control.

162. Sociology of Recreation. (3) W. Ballif

The modern social situation and the rise of the recreation movement; the basic theories of play and recreation; the relation of recreational activities and interests to personal growth, group behavior and social maladjustments

164. Juvenile Sociology. (2) A.W.S. Boyle

(See also Secondary Education 189.)

170. Marriage. (3) W. Ballif, Bradford

An advanced course designed for the specialist in family counseling, and for both the married and those ready for

marriage who desire a better understanding of the institution and the problems involved. Sociological discussions will be supplemented from time to time by lectures from specialists in other fields.

172. The Family. (3) A. Bradford

A study of the history and development of the family as a special institution. The course also considers the modern family and its problems.

176. Educational Sociology. (3) A. Swensen

An introductory study of the principles of educational sociology and their application to the theory and practice of school administration, curricula and methods of instruction.

178. The Sociology of Religion. (2) W. Ballif

A study of religion as a social institution. Analysis will be made of the structure and social function of the church, of significant trends and social problems in religious behavior, and of the role of the church in the community and society at large.

182. Methods of Research in Sociology. (3) A. Bradford

A critical survey of the various methods used in the investigation of sociological data. An attempt will also be made to develop a theory of social research.

186. Social Statistics. (3) W. Lambert

(See also Economics 74.)

190, 192. Seminary. (2) W.S. Staff

Informal round-table discussions on current sociological problems.

196, 198. Special Research Problem. (1 to 3) A.W.S. Staff

Opportunity is given for the student to work out a problem in the field of his greatest interest. Direction in the methodology of research in the social science field, and in the presentation of material.

Graduate Courses

202. Development of Social Thought. (3) W. Bradford

204. Contemporary Sociological Theory. (3) S. Bradford

208. Cultural Anthropology. (3) W.	Bradford
210. Principles of Sociology. (3) W.	Swensen
214. Social Psychology. (3) W.	Ballif
216. Social Control. (3) S.	Swensen
218. Social Ethics. (3) W. (See also Philosophy of Education 90.)	Lloyd
224. Crime and Delinquency. (3) A.	Ballif
228. Race Relations. (3) S.	Ballif
232. Labor Problems. (3) A. (See also Economics 61.)	Miller
234. Social Legislation. (3) S.	Ballif
236. Community Organization and Leadership. (3) A.	Ballif
238. The Cooperative Movement. (2) S.	Ballif
240. Social Structure in the United States. (3) S.	Bradford
250. Human Ecology. (2) W.	Ballif
252. Population. (3) A.	Bradford
256. Rural Sociology. (3) S.	Bradford
260. Urban Sociology. (3) S.	Bradford
262. Sociology of Recreation. (3) W.	Ballif
264. Juvenile Sociology. (2) A.W.S.	Boyle
270. Marriage. (3) W.S.	Staff
272. Family. (3) A.	Staff
276. Educational Sociology. (3) A.	Swensen
278. The Sociology of Religion. (2) W.	Ballif
282. Methods of Research in Sociology. (3) A.	Bradford
288. Advanced Statistics. (3) A.W.S.	Lambert
290-292. Seminar. (2) W.S.	Staff
296-298. Special Research Problems. (1 to 3) A.W.S.	Staff
300. Thesis. (4 to 6) A.W.S.	Staff

Zoology and Entomology

Professor Tanner; Associate Professors Hayward, Beck; Assistant Professor H. J. Nicholes

Students majoring in Zoology will be required to complete the following courses or their equivalents during the first two years: Zoology 11, 12, 13, 18 or 29, 46, and Entomology 30. This will constitute the basic lower division course. The remainder of the program of the major will be determined by the department staff, and will depend upon the interests and particular needs of each individual student.

Pre-medical students may take Zoology for their major, and should complete the following courses: Freshman, 11; Sophomores, 12, 13, 29; Juniors, 165, 166, 170; Seniors, 172, 175, 182, 183.

Students who desire to teach Biology in the high school should complete the following courses: Zoology 11, 12, 13, 18 or 29, 30, 45, 157, 158, 159, 175, 182, 183; Botany 1, 2, 3, 140; Bacteriology 21, 22. Students who desire to minor in the department and teach high school should complete the following courses: Zoology 11, 18 or 29, 45, 46, and Entomology 30.

Students majoring in Entomology should complete the following courses: Freshmen, Zoology 11, 12, 13; Sophomores, Entomology 30, 31, 32 and Zoology 28; Juniors, Entomology 33 and Zoology 171; Seniors, Entomology 194 and Zoology 175.

Facilities for the Study of Zoology and Entomology

The natural history collections consist of a complete collection of Utah fish, amphibians, reptiles, birds, and mammals. This collection is also supplemented by the Chester Van Buren collection of birds of the Magdalena River of Columbia, the David Starr Jordan collection of fish from the Hawaiian Islands, and a collection of reptiles from Oceania and the Philippine Islands. The entomological collection contains authoritatively named specimens in all the orders of insects. The pinned insects are placed in 450 trays, 18x19 inches in size, 2 inches deep. The specimens are pinned in unit boxes. The Lepidoptera collection is fairly complete, containing specimens from Utah and the Great Basin region. It contains over 600 named species and 10,000 specimens. It is made up of the famous Tom Spaulding collection and the Chester Van Buren collections. The Coleoptera collection contains over 6000 determined species and 50,000 specimens. It contains a fairly complete collection of weevils, the Charles W. Leng collection of 1676 species, 300 species from the Blatchley collection and Charles

Schaeffer weevil collection consisting of 813 species. A large collection of insects was made by staff members and former students in the South Pacific Islands, 1942-45. Many types, cotypes, and paratypes specimens are in the collections. All these collections are housed in the fireproof George H. Brimhall Building.

Zoology

Lower Division Courses

11. General Zoology. (5) A.W.S. Three lectures, two two-hour laboratory periods per week. Sections 1, 2, 3, 4, 5, 6. Beck

12. Invertebrate Zoology. (5) A.W. Two lectures, three two-hour laboratory periods per week. Prerequisite: Zoology 11. Beck

13. Comparative Anatomy. (5) A.S. Two lectures, three two-hour laboratory periods per week. Prerequisite: Zoology 11. Hayward

18. Survey Course in Heredity. (3) A. Nicholes

28. Aquatic Zoology. (3) A. Two lectures and one two-hour laboratory period per week. Tanner

29. Heredity. (5) A.W. Daily. Prerequisite: Zoology 11 or Botany 1. Nicholes

45. Vertebrate Anatomy and Physiology. (5) A.S. Three lectures, two two-hour laboratory periods per week. Zoology 11 recommended. Nicholes

46. Principles of Ecology and Bio-geography. (3) S. Prerequisites: Zoology 11, Botany 1 and 2. Several Saturday field trips. Hayward

Upper Division Courses

153. Field Methods in Ecology and Faunistics. (2) S. Full Saturday field trips required. Hayward

157. Mammalogy. (3) A. One lecture, two two-hour laboratory periods per week. Saturday field trips. Prerequisite: Zoology 11. Hayward

158. Ornithology. (3) S. One lecture and two two-hour laboratory periods per week. Saturday field trips. Prerequisite: Zoology 11. Hayward

159. Cold Blooded Vertebrates: Fish, Amphibians and Reptiles. (3) W. One lecture, two two-hour laboratory periods. Prerequisite: Zoology 11. Tanner

165. General Physiology. (5) W. Three lectures, two two-hour laboratory periods. Prerequisite: Zoology 13. Recommended: Organic Chemistry. Nicholes

166. Human Physiology. (5) S. Three lectures, two two-hour laboratory periods per week. Prerequisite: Zoology 165. Nicholes

170. Vertebrate Histology. (3) A. One lecture, two two-hour laboratory periods, Prerequisites: Zoology 11, 12, and 13. Hayward

171. Histological Technique. (2) W. Two two-hour laboratory periods per week. Prerequisites: Zoology 11, 12, 13, 170. Hayward

172. General Embryology. (3) W. One lecture and two two-hour laboratory periods. Prerequisites: Zoology 11, 13. Hayward

175. History of Biology. (2) W. Tanner

180, 181. Junior Year Seminar. 182, 183. Senior Year. (1-1-1) A.W. Required of all majors in this department. Staff

185. Fresh Water Zoology Problems. (Credit and time to be arranged.) S. Tanner

191, 192, 193. Field Zoology. (Credit and time to be arranged.) Tanner, Hayward, Beck

197. Natural and Human Resources. (3) S. Tanner

Graduate Courses

213, 214, 215. Research Work in Systematic Vertebrate Zoology. (Credit and time to be arranged.) Tanner

253. Field Methods in Ecology and Faunistics. (See 153.) Hayward

254. Special Problems in Animal Ecology. Hayward

255. Distributional Study of Parasitic Arthropods. (3) A.W.S. Beck

257. Mammalogy. (See Course 157.) Hayward

258. Ornithology. (See Course 158.) Hayward

261. Studies in the Distribution of the Invertebrates. (3) W. Beck

266. Human Physiology. (See Course 166.) Nicholes

275. History of Biology. (See Course 175.) Tanner

297. Natural and Human Resources. (See Course 197.) Tanner

300. Research Thesis. (Credit 4 to 6 hours.) Staff

Entomology

Lower Division Courses

30. Elementary Entomology. (5) A. Three lectures, two two-hour laboratory periods per week. Tanner

31. Insect Morphology. (3) W. Three two-hour laboratory periods. Prerequisite: Entomology 30. Tanner

32. Insect Classification. (4) S. One lecture, three two-hour laboratory periods. Tanner

33. Medical Entomology. (4) A. Two lectures, two two-hour laboratory periods. Tanner

Upper Division Courses

162. Advanced Study of the Coleoptera. (3) A.W.S. Tanner

164. Advanced Entomology. (Credit to be arranged.) W.S. Tanner

194. Principles of Nomenclature. (1) W. Tanner

Graduate Courses

202, 203, 204. Special Problems in Systematic Entomology. (Credit to be arranged.) Tanner

205, 206. Research Work in Insect Morphology. (Credit to be arranged.) Tanner

210. History of Entomology. (2) W. Required of all graduate students in Entomology. Tanner

300. Research Thesis. (Credit 4 to 6 hours.) Tanner

College of Commerce

Herald R. Clark, Dean

The purpose of the College of Commerce is to provide training for leadership in industry and finance. Courses are so arranged that students will be given the training that will best fit them for analyzing business conditions, for efficiency in office administration, and for the demands of the industrial and financial world. The degrees, Bachelor of Arts and Bachelor of Science, are given to graduates of this College.

Majors may be selected from the following departments: Accounting and Business Administration, Agricultural Economics, Economics, Finance and Banking, Marketing, Political Science, and Secretarial Practice.

DEPARTMENTS OF INSTRUCTION

Accounting and Business Administration

Professors Hoyt, Clark, Boyle, Eyring, Poulson, Miller, Lambert, Pond; Associate Professors Taylor, Smith; Mr. Lowe, Mr. Crandall, Mr. McKnight

Students majoring in this department are required to take Accounting and Business Administration 2, 35, 152, and 174 or 175.

Accounting is one of the subjects comprising the composite majors in Business designed for prospective teachers.

Lower Division Courses

1. **Elementary Accounting.** (5) A.W.S. Five one-hour laboratory periods per week. Smith, Lowe, McKnight, Crandall

 An introduction to college accounting. Purpose, preparation to enter business at once, and a foundation for advanced work in accounting.

2. **Elementary Accounting.** (5) A.W.S. Five one-hour laboratory periods per week. Smith, Lowe, McKnight, Crandall

 Continuation of Course 1.

26. Office Machines. (1) A.W.S. Prerequisite: Accounting and Business Administration 1. Croft

Training in machine bookkeeping, calculators, and all typical labor-saving office equipment.

35. Mathematical Theory of Investment. (3) A.S. Staff

Application of mathematics to business and accounting. Compound interest, annuities, logarithms, progressions. (See Mathematics 35.)

36. Graphical and Statistical Methods. (3) S. Staff

(See Mathematics 36.)

Upper Division Courses

150, 151, 152. Intermediate Accounting. (4-4-4) A.W.S. Prerequisite: Accounting and Business Administration 2.

Clark, Smith, Lowe

Basic accounting theory applied to going concerns. Special attention to corporations and partnerships and preparation of various types of accounting statements.

154. Credits and Collections. (3) S. Hoyt

Granting of credit, control of credit, how collections are made, retail credit bureaus, contracts, installment selling plans. (See also Marketing 154.)

155. Principles of Risk-Bearing. (5) W. Boyle

(See Economics 155.)

160. Office Organization and Management. (3) S. Hoyt

Organization and management of modern offices, application of office equipment and labor-saving devices;the selection and training of office employees. (See Secretarial Practice 160.)

161. Labor Problems. (3) A. Miller

(See Economics 161.)

162. Business and Industrial Management. (3) W. Hoyt

The organization and planning of business operations for the most effective control and execution.

163. Personnel Management. (5) S. Boyle

Developing a modern personnel organization for protecting the welfare of employees and promoting effective labor management. Employee selection, training, promotion, and incentives.

164. Industrial Psychology. (3) A. Poulson
(See Psychology 164.)

165. Business Psychology. (3) S. Poulson
(See Psychology 165.)

167. Personnel Psychology. (3) A. Prerequisite: Psychology 11. (Not given 1948-1949.) Staff
(See Psychology 167.)

174. Principles of Statistics. (3) W.S. Lambert
This course, or 175, required of all majors in Economics, Finance and Banking, Accounting and Business Administration, and Marketing.

175. Business and Economic Statistics. (3) A.S. Hoyt
Statistical methods of processing business and economic data. This course, or 174, required of all majors in Accounting and Business Administration, Economics, Finance and Banking, and Marketing.

187. Municipal and Government Accounting. (3) A. Prerequisites: Accounting and Business Administration 151 and 152. Lowe
Involves the operation and auditing of municipal and government accounts.

188. Federal and State Tax Problems. (3) W. Prerequisites: Accounting and Business Administration 151 and 152. Lowe
A study of Federal and State tax regulations and solutions to tax problems.

189. Consolidated Statement Problems. (3) S. Prerequisites: Accounting and Business Administration 151 and 152, or coincident with 152. Lowe
Problems arising from mergers, consolidations, and holding company arrangements.

191. Cost Accounting. (4) A.W. Prerequisites: Accounting and Business Administration 150, 151, and 152. Hoyt, Smith
Introduction to methods and principles of cost finding. Specialized methods of handling costs for materials, labor, and overhead expense.

192. Advanced Cost Accounting. (4) W.S. Prerequisite: Accounting and Business Administration 191. Hoyt, Smith
Industrial accounting. Practical work in cost determination. Uniform cost accounting systems for modern industries.

194. Auditing Theory and Practice. (3) A. Prerequisites: Accounting and Business Administration 151 and 152. Hoyt, Smith

Principles and methods of public accounting. Professional responsibility and conduct. Interpretation of accounts and financial statements.

195. Auditing Practice Laboratory. (2) A. Prerequisite: Accounting and Business Administration 194. Hoyt, Smith

Practical auditing. Verification of accounts and financial statements. Audit working papers. Two two-hour laboratory sessions per week to accompany Auditing Theory and Practice.

196, 197, 198. C. P. A. Coaching. (4-4-4) A.W.S. Prerequisites: Accounting and Business Administration 152, 191, 194, 195 and contemporaneously with 187, 188 and 189. Smith

Preparation for C.P.A. examinations in Accounting Theory, Accounting Practice, and Auditing.

199. Business Policies. (3) S. (Not given 1948-49.) Hoyt

Applications of all the work given in business administration and emphasizes policies involved. Open only to seniors in business.

Graduate Courses

250, 251, 252. Intermediate Accounting. (3-3-3) A.W.S. Staff

254. Credits and Collections. (3) S. Hoyt

255. Principles of Risk Bearing. (5) W. Boyle

260. Office Organization and Management. (3) S. Hoyt

261. Labor Problems. (3) A. Miller

262. Business and Industrial Management. (3) W. Hoyt

263. Personnel Management. (5) S. Boyle

264. Industrial Psychology. (3) A. Poulson

265. Business Psychology. (3) S. Poulson

275. Business and Economic Statistics. (3) A.S. Hoyt

287. Municipal and Government Accounting. (3) A. Lowe

288. Federal & State Tax Problems. (3) W. Lowe

289. Consolidated Statement Problems. (3) S. Lowe

291. Cost Accounting. (4) A.W. Hoyt, Smith

292. Advanced Cost Accounting. (4) W.S. Hoyt, Smith

294. Auditing Theory and Practice. (3) W. Hoyt, Smith

295. Auditing Practice Laboratory. (2) W. Hoyt, Smith

296, 297, 298. C. P. A. Coaching. (4-4-4) A.W.S. Smith

311, 312, 313. Research in Accounting. A.W.S. Hours and credit to be arranged. Staff

314, 315, 316. Research in Statistics. A.W.S. Hours and credit to be arranged. Staff

381, 382, 383. Seminar in Business Psychology. (1 to 3) A.W.S. Staff

300. The Master's Thesis in Business Administration. (1 to 6) A.W.S. Staff

Thesis embodying results of independent research in an approved field. See catalogue section dealing with requirements of the graduate school.

Agricultural Economics

Professors Pond, Bradford; Associate Professors Taylor, Farnsworth

The following courses are required for a major in Agricultural Economics: Economics 1, 2, 194, and 174 or 175; Agricultural Economics 20, 25, 167, 181, and 182. Credit for Economics 174 or 175, and 194 will apply toward a major in Agricultural Economics

It is recommended that students majoring in Agricultural Economics select a minor in either Agronomy, Animal Husbandry, Horticulture, or Marketing, or at least take the following courses in those fields: Agronomy 21 and 105, Animal Husbandry 21, and Horticulture 1.

Lower Division Courses

20. Principles of Agricultural Economics. (3) A. Prerequisites: Economics 1 and 2. Pond

A survey of the basic principles of agricultural economics from both the individual and social points of view, including a study of farm management, land use and tenure, agricul-

tural labor problems, farm credit, marketing of agricultural commodities, and the status of agriculture in the national economy.

25. Farm Management. (3) W. Farnsworth

A general consideration of farm management; types of farming, farm layout, farm capital, equipment, labor, tenancy, farm records, and farm improvement. (See also Agronomy 25.)

Upper Division Courses

156. Rural Sociology. (3) W. Bradford

A survey of social conditions in the rural life of America, with special reference to those social processes which are in operation at the present time. (See also Sociology 156.)

157. Principles of Marketing. (5) A. Taylor

(See also Marketing 157.)

167. Marketing Fruits and Vegetables. (3) W. Staff

(See also Marketing 167.)

181. Land Economics. (3) W. Prerequisite: Agricultural Economics 20. Pond

Principles relating to the utilization, tenure, and conservation of land resources.

182. Agricultural Finance. (3) S. Prerequisite: Agricultural Economics 20. Taylor

A study of agricultural credit, with special reference to existing financial organizations and their relation to agriculture.

191. Western Land Problems. (3) S. Pond

A survey of the outstanding land problems of the western states, particularly those of the Rocky Mountain area. Special class reports by students will be required.

192. American Agricultural Reform. (3) S. (Not given this year.)

193. Economic History of Agriculture. (3) S. (Not given this year.)

The development of agriculture from its beginnings in the Old World to the present time. Historical background of contemproray agricultural problems.

Graduate Courses

281. Land Economics. (3) W. Pond

282. Agricultural Finance. (3) S. Taylor

291. Western Land Problems. (3) S. Pond

292. American Agricultural Reform. (3) S. (Not given this year.)

300. Thesis. Staff

Economics

Professors Miller, Clark, Hoyt, Boyle, Lambert, Pond; Associate Professor Taylor

The following courses are required for a major in Economics: Economics 1, 2, 14, 153, 174 or 175, 194.

Economics is one of the subjects comprising the composite majors in Business and in Social Science designed for prospective teachers.

Lower Division Courses

1. Economics—Introduction and Principles. (5) A.W.S. Staff

A general survey of industrial society, its structure, its institutions and operation. A brief survey of prices, money, banking, wages, interest, rent, and profits.

2. Economics—Contemporary Economic Problems. (5) W.S. Prerequisite: Course 1. Miller

A more advanced study of the underlying principles of economics. Includes an intensive study of several contemporary economic problems, with emphasis on problems of the post-war world.

14. Economic and Financial History of the United States. (3) A.W.S. Miller

Economic development of the United States from colonial times to the present, with emphasis upon economic integration and industrial organization to the Civil War.

Upper Division Courses

151. Economics of Consumption. (3) Prerequisite: Economics 2. Boyle

(See also Marketing 151.)

153. Money and Banking. (4) Clark

(See also Finance and Banking 53.)

155. Principles of Risk Bearing. (5) Prerequisite: Economics 2. Boyle

Life, health, accident, fire, property and liability insurance, and principles of risk-bearing as they apply to each classification of the insurance field. (See also Accounting and Business Administration 155.)

156. Transportation Problems. (5) S. Pond

Deals with the growth and development of modern methods of transportation, problems of rate determination, and the development of public regulation and railway legislation in the United States.

161. Labor Problems. (3) A. Miller

This course covers the wage system, domestic industry, the factory system, the rise and growth of labor organizations. (See also Sociology 132.)

162. Collective Bargaining and Industrial Relations. (3) W. Prerequisite: Economics 161. Miller

This course deals with the larger economic and legal aspects of contemporary labor-management relations. Major emphasis will be directed to government controls, such as N.L.R. law and Taft-Hartley Act.

163. Labor Law. (3) S. Prerequisite: Economics 161. Miller

The history and development of labor law as it has developed in the United States under the major labor acts and court decisions.

167. Public Finance and Taxation. (5) A. Pond

(See also Finance and Banking 167.)

174. Principles of Statistics. (3) W. Lambert

Measures of central tendency, dispersion, and simple correlation. For students in education, psychology, biology, business, economics, and social sciences. Assumes reasonable competency in algebra. Any training in mathematics, including differential calculus, will be an advantage to the student. (See also Accounting and Business Administration 174.)

175. Business and Economic Statistics. (3) W.S. Hoyt
(See also Accounting and Business Administration 175.)

176. Social Control of Business. (3) S. Prerequisite: Economics 2. Miller

General survey of governmental activities affecting business. The course aims to develop an understanding of the economic basis for government regulations, and the probable limits and difficulties inherent in our existing economic system in extending such regulation.

178. International Economic Policies. (3) W. Miller

A survey with particular reference to the United States, of the international aspects of the economic policies and activities of governments.

194. Advanced Economics. (5) W. Prerequisite: Economics 2. Pond

Advanced course in economic theory with stress upon production principles and price theory.

199. History of Economic Thought. (5) S. Pond

The development of economic thought from early times to the present. A brief survey up to about 1750. Chief emphasis will be given to Smith, Ricardo, Malthus, and Mill.

Graduate Courses

253. Money and Banking. (4) S. Clark
(See also Finance and Banking 253.)

256. Transportation Problems. (5) S. Pond

261. Labor Problems. (3) A. Miller
(See also Sociology 232.)

262. Collective Bargaining. (3) W. Miller

263. Labor Law. (3) S. Miller

267. Public Finance. (5) A. Pond
(See also Finance and Banking 267.)

278. International Economic Problems and Policies. (3) W. Miller

294. Advanced Economics. (5) A. Prerequisite: Economics 2. Pond

Advanced course in economic theory with application to present day economic problems.

297. Research. Time and credit to be arranged. Miller, Pond

299. History of Economic Thought. (5) S. Pond

300. Thesis. (Four to six hours.) Staff

Finance and Banking

Professors H. R. Clark, Miller, Lambert, Pond; Mr. Sandgren, Mr. Grow

Students majoring in Finance and Banking are required to take Accounting and Business Administration 35, 151, 174 or 175, and a minimum of 30 hours in this department.

Lower Division Course

14. Economic and Financial History of the United States. (3) A.W. Miller

The economic development of the United States through the colonial era and the period of the industrial revolution and westward movement, with emphasis upon economic integration and industrial organization.

Upper Division Courses

151, 152. Business Finance. (4) A.W. Prerequisites: Economics 1, 2. Clark

Financial problems connected with the organization of corporations, underwriting and the sale of securities, management, expansion, and the reorganization of those that are not successful.

153. Money and Banking. (4) W. S. Prerequisites: Economics 2. Clark

A study of the principles of money and banking and the exemplifications of these principles in the monetary and banking history of the United States

154. Investments. (4) S. Prerequisite: Accounting 150. Clark

A study of the various forms and methods of investment.

155. Real Estate Finance and Development. (4) S. Grow

157. Commercial Law. (4) A. Sandgren

(See Political Science 157.)

158. Commerical Law. (4) W. Sandgren
(See Political Science 158.)

159. Commercial Law. (4) S. Sandgren
(See Political Science 159.)

167. Public Finance and Taxation. (5) A. Pond
The science of public finance; the theory of public expenditure; public income and public debts; the preparation of the budget and financial administration. (See Economics 167.)

Graduate Courses

201. Research in Business Finance. (2 to 5) W.S. Clark

211. Public School Finance. (5) W. Lambert
The theory and practice of financing public education in the United States. The stress is placed upon revenue and distribution systems. A course in taxation should precede or parallel this course. (See Education 111.)

251, 252. Business Finance. (4) A.W. Clark
(See Finance and Banking 151, 152.)

253. Money and Banking. (4) W.S. Clark
(See Finance and Banking 153.)

254. Investments. (4) S. Prerequisite: Accounting 150. Clark
(See Finance and Banking 154.)

267. Public Finance. (4) S. (See Economics 167.) Pond

MARKETING

Associate Professor W. Taylor; Professors Hoyt, Jenson, Boyle; Mr. L. Taylor

1. Required courses: Marketing 51, 157, 158, 159, 161; Accounting and Business 151, 174 or 175; Economics 2; Art 10; Psychology 12. Recommended courses: Art 40; Psychology 165; Economics 194.

Marketing is one of the subjects comprising the composite major in Business designed for prospective teachers and described in the College of Education.

Lower Division Courses

10. Theory and Practice of Design. (2) A.W.S. Staff
(See also Art 10.)

23. Geography of Economics Products. (3) S. Bullock
(See also Geography 23.)

39, 40, 41. Commercial Art. (2) A.W.S. Jenson
(See also Art 39, 40, 41.)

55. Textiles. (3) W.S. Potter
(See also Clothing and Textiles 55.)

Upper Division Courses

115, 116, 117. Interior Design. (3) A.W.S. L. Taylor
(See also Art 115, 116, 117.)

139, 140, 141. Commercial Art. (2 to 4) A.W.S. All courses given each quarter. Prerequisites: Art 39, 40, 41. Jenson
Poster designing, Layout, and Lettering. (See also Art 139. 140, 141.)

151. Economics of Consumption. (3) W. Staff
(See also Economics 151.)

154. Credits and Collections. (3) A. Hoyt
(See also Accounting and Business Administration 154.)

156. Transportation Problems. (5) S. Pond
(See also Economics 156.)

157. Principles of Marketing. (5) A. Taylor
Deals with the fundamental structure of our system of distribution. The treatment includes the study of marketing functions, marketing institutions, the scope of their operations, and the part they play in the various product and commodity fields. (See also Agricultural Economics 157.)

158. Principles of Retailing. (5) W. Boyle
Deals with the operation of the retail store, treating specifically store organizations, location, personnel, layout, principles of salesmanship, and customer services.

159. Advertising. (5) A.S. Taylor
Principles of advertising, including copy preparation, layout, media, campaigns, etc. Psychology 65 recommended. (See also Journalism 139.)

160. Buying and Merchandising Fashion. (2) S. Staff

161. Problems of Retail Store Control. (5) W. Prerequisite: Accounting 150. Taylor

Deals with methods of accounting for and controlling mark up, mark down, inventory, turn over, merchandise planning and expense budgeting.

162. Business and Industrial Management. (3) W. Hoyt

(See also Accounting and Business Administration 162.)

163. Personnel Management. (3) S. Boyle

(See also Accounting and Business Administration 163.)

165. Sales Management. (5) S. Boyle

Methods of selecting and training and paying salesmen. The technique of making market surveys and fitting a sales organization to the needs of the market most efficiently. Also a study of the principles of salesmanship.

166. Economics of Clothing Selection. (2) W. Prerequisite: Clothing and Textiles 55. Potter

(See also Clothing and Textiles 162.)

167. Marketing Fruits and Vegetables. (3) W. Staff

(See also Agricultural Economics 167.)

185. Seminar in Marketing and Merchandising. (3) S. (Open only to students who have had Marketing 157 and Accounting 174 or 175.)

A seminar in current problems in marketing. Students are required to develop at least one major study of a marketing poblem.

Graduate Courses

204, 205, 206. Research in Marketing Problems. Time and Credit to be arranged. Staff

239, 240, 241. Research in Commercial Art. (2) A.W.S. Jenson

251. Research in Economics of Consumption. (3) W. Staff

(See also Economics 151.)

254. Research in Credits and Collections. (3) A. Hoyt

(See also Accounting and Business Administration 154.)

256. Research in Transportation Problems. (5) S. Pond

(See also Economics 156.)

257. Research in Principles of Marketing. (5) A. Taylor
(See also Agricultural Economics 157.)

258. Research in Principles of Retailing. (5) W. Boyle

259. Research in Advertising. (5) A.S. Taylor
(See also Journalism 239.)

261. Research in Retail Store Control. (5) W. Prerequisite: Accounting 150. Taylor

262. Research in Business and Industrial Management. (3) W. Hoyt
(See also Accounting and Business Administration 162.)

263. Research in Personnel Management. (3) S. Boyle
(See also Accounting and Business Administration 163.)

265. Research in Sales Management. (5) S. Boyle

285. Seminar in Marketing and Merchandising. (3) S. (Open only to students who have had Marketing 157 and Accounting 174 or 175. Taylor

300. Thesis

Secretarial Practice

Assistant Professor Croft; Professors C. S. Boyle, Hoyt; Associate Professor Taylor; Mr. Crandall, Mrs. Taylor, Miss Hallam, Mr. Stansfield, Mrs. Wakefield.

Students majoring in this department are required to complete Economics 2; Accounting and Business Administration 2, 150; Finance and Banking 157; Secretarial Practice 151, 152, 154, 155, 157, 160, and 163. Recommended: Accounting and Business Administration 165, 174 or 175; Marketing 158.

Secretarial Practice is one of the subjects comprising the composite major in Business designed for prospective teachers.

Lower Division Courses

11. Elementary Shorthand. (4) A.W. Staff
An introduction and drill on the theory of Gregg Shorthand. Students with previous training are not permitted to take this course for credit.

12. **Elementary Shorthand.** (4) A.W.S. Prerequisite: Secretarial Practice 11 or equivalent. Staff

A completion of the theory of Gregg Shorthand.

13. **Elementary Shorthand Dictation.** (4) W.S. Prerequisite: Secretarial Practice 12 or equivalent. Staff

Application of theory in dictation.

14. **Shorthand Theory Review and Speed Building.** (3) A.S. Prerequisite: Secretarial Practice 13 or equivalent. Staff

Complete review of Gregg Shorthand theory with speed building practice intended to bring all students above the 80-words-a-minute level.

15. **Shorthand Speed Building and Transcription.** (3) A.W. Prerequisite: Secretarial Practice 14 or equivalent. Staff

Speed building practice to 120 words a minute. Introduction to transcription.

21. **Elementary Typewriting.** (2) A.W.S. Croft

Direct and Natural Typewriting. Students with previous training not permitted to take this course for credit.

22. **Elementary Typewriting.** (2) A.W.S. Prerequisite: Secretarial Practice 21 or equivalent. Staff

This course develops typing skill and provides practice in application for personal use.

23. **Typewriting Speed Building.** (2) A.W.S. Prerequisite: Secretarial Practice 22 or equivalent. Staff

This course provides practice in speed and accuracy.

24. **Mechanical Business Letters and Forms.** (2) A.W.S. Croft

This course provides practice in speed and accuracy and includes special problems related to letter writing and business forms.

26. **Office Machines.** (1) A.W.S. Prerequisite: Accounting and Business Administration 1. Staff

This course comprises training in the operation of Burroughs, Comptometer, and Monroe calculators; also instructions on the Burroughs bookkeeping machine. It includes addition, subtraction, multiplication, and division. Practical problems are used in the practice work of the class.

31. Business English. (3) A.W.S. Prerequisite: Freshman English. Taylor

A review of sentence structure, punctuation, spelling and business vocabulary. A study of, and practice in writing, business correspondence.

Upper Division Courses

151. Advanced Shorthand Transcription and Speed Building (3) W.S. Prerequisite: Secretarial Practice 15 or equivalent. Staff

An intensive transcription practice. Advanced principles and phrases with speed building to 120 words a minute.

152. Advanced Shorthand Speed Building. (4) A.S. Prerequisite: Secretarial Practice 151 or equivalent. Hallam

Speed building above 120 words a minute.

153. Advanced Shorthand Speed Building and Reporting. (4) W. Hallam

Expert shorthand speed course above 140 words per minute with introduction to court reporting.

154. Office Techniques. (3) A.W.S. Prerequisite: Secretarial Practice 24 or equivalent. Staff

Training in personality building and office techniques for those who desire to enter the business field.

155. Secretarial Training. (4) W.S. 6 hrs. per week. Prerequisite: Secretarial Practice 151 and 154 or equivalent. Taylor

A finishing course for those who desire to qualify for stenographic and secretarial positions. It includes discussion of office personality problems; practice in letter writing; preparation of legal instruments, commercial forms, and telegrams; telephone procedure; and filing.

157. Principles of Marketing. (5) A.S. Taylor

(See also Marketing 157.)

160. Office Organization and Management. (3) S. Hoyt

(See also Accounting and Business Administration 160.)

163. Personnel Administration. (5) A.S. Hoyt

(See Accounting and Business Administration 163.)

178. Fundamentals of Business Education. (3) S. Boyle

A course designed to lay the foundation for an understanding of the fundamentals of business education. Designed especially for all students who intend to teach any commercial subject.

184. Court Reporting. (4) S. Prerequisite: Secretarial Practice 153, and 160 words per minute skill. Hallam

Specialized vocabulary and testimony dictation.

198. Methods of Teaching Typewriting and Shorthand. (3) W. Croft

A study of methods of teaching typewriting, theory of presentation, measurements, and approaches. Also Gregg shorthand with emphasis on the manual, functional, and direct methods. Consideration will be given to presentation of principles, details of theory, mechanics of dictation, tests, grades, devices for motivation, and speed-building.

College of Education

Reuben D. Law, Dean

The College of Education has as its principal function the educating of teachers, principals, supervisors, and superintendents. It offers courses leading to the degrees of Bachelor of Arts and Bachelor of Science and also to the advanced degrees in the professional fields of education. Its offerings meet the requirements of the Utah State Board of Eductation for elementary and secondary teacher certification and for certificates in administration and supervision. Work leading to such certificates in other states and other nations may also be taken at Brigham Young University.

Students who contemplate entering the teaching profession are advised to make application for admission to the College of Education as early as possible in their college career. Acceptance by the Admissions Committee of the university does not automatically carry the right to register in the College of Education. It is necessary, also, to be approved by the Committee on Selective Admission to the College of Education after making formal written application on blanks which are available at the dean's office. Application should be made well in advance, and students should remain alert for annuncements regarding qualifying tests which may be given periodically. Under certain circumstances students may be permitted to register tentatively for a quarter while being given opportunity to comply with the requirements for regular admission to the College of Education. The important work of teaching is not a right to be demanded by any citizen. It is a privilege to be granted by society on the basis of worthiness.

The following departments are at present organized in the College of Education: Education, Educational Administration, Elementary Education, Philosophy of Eduction and Guidance, Secondary Education, and Health, Physical Education and Recreation. Elementary teachers are expected to major in Elementary Education accompanied by broad academic preparation in many fields needed in the modern elementary school.

In connection with the departments of Elementary Education and Secondary Education modern elementary and secondary schools (kindergarten to twelfth grade) are provided as laboratories wherein teachers may secure experience in teaching under helpful guidance and supervision.

A teacher placement bureau is maintained by the College of Education as a service to prospective teachers, to experienced teachers and administrators, and to school districts and institutions seeking to employ professional personnel.

Students entering teaching in the elementary or secondary fields are expected to be proficient in the basic skills and to possess a socially desirable background of common information. Tests will be given at announced times at which the standard of proficiency can be determined. It is urged that the tests be taken at the time of the first courses in Education or earlier. Better guidance will be made possible if the tests are taken early.

It is expected that prospective teachers will maintain a desirable standard of scholarship in all of their work and especially in their major fields of professional and academic preparation.

All students who expect to take student teaching are required to make formal written application on blanks provided by the teacher education divisions of the College of Education at least three months prior to the date of beginning student teaching, and preferably not later than the end of the second quarter of the junior year. Before applicants are permitted to begin student teaching their applications in the case of secondary teachers must be approved by a committee in the Department of Secondary Education and by the head of the respective major subject matter department; and applications for elementary student teaching must meet the approval of a committee in the Department of Elementary Education.

The certificates for which students may prepare are listed below:

Teacher's Certificate for Elementary Schools.
Librarian's Certificate for Elementary Schools.
Teacher's Certificate for Secondary Schools.
Librarian's Certificate for Secondary Schools.
Counselor's Certificate.
Administrative-Supervisory Certificate for Elementary Schools.
Administrative-Supervisory Certificate for Secondary Schools.
Administrative Certificate for Superintendents.

The requirements in terms of the program at B. Y. U. for elementary and secondary certificates for teachers are given below in some detail. For further clarification of these requirements and for guidance in qualifying for the librarian's

certificate, the counselor's certificate, and for administrative and supervisory certificates, students should consult with the dean and the department heads.

When all requirements have been met, certificates are issue by the State Department of Education upon the written recommendation of the Dean of the College of Education. Seniors and graduate students expecting to receive any of the certificates listed above should call at the office of the dean and fill out the necessary application form before leaving the campus.

REQUIREMENTS FOR TEACHER'S CERTIFICATE FOR ELEMENTARY SCHOOLS WITH A RECOMMENDATION FROM BRIGHAM YOUNG UNIVERSITY

I. General Preparation:

A. Twelve quarter hours in **each** of the following fields: social science, physical science, and biological science. Students should select courses which will be of greatest value in providing a rich background for versatility in elementary srhool work.

B. Eighteen hours in English including children's literature. Students with foreign language credit may count six hours of language credit as part of this group.

C. Three hours of activity type physical education. See also professional requirement of physical education for elementary teachers.

D. Six quarter hours in the field of music and fine and/or practical arts.

II. Professional Preparation: A major of forty-five quarter hours of professional education to include not less than thirty hours in elementary education. This work shall be taken in the following areas and in the following minimum amounts:

A. Nine quarter hours in an adequate understanding of children, of the nature of the physical, intellectual, and emotional development of children before and through the years of schooling (physical and psychological foundations).

1. Child Growth and Development 3 hrs.
2. Health Education 3 hrs.
3. Educational Physchology 3 hrs.

B. Six quarter hours in understanding the school and its relation to the community and public school organization and administration, with emphasis on Utah public schools and Utah school law.

1. Social Foundations of Education or Philosophy of Education 3 hrs.
2. School Administration and Utah School Law 3 hrs.

C. Twelve quarter hours in elementary school curriculum and methods including public school art, public school music, and physical education for elementary schools.

D. Twelve quarter hours in elementary school student teaching.

III. **Academic Preparation:** Elementary teachers are advised to develop a broad background of scholarship in the many fields related to the elementary school as a means of being prepared to meet the demands for versatile teachers to serve in modern, non-departmentalized elementary schools. As a means of giving some focus to this broader preparation, students are encouraged to develop a group of at least thirty hours in one related area. This group may include the requirements for a degree minor and the general preparation requirements listed under No. 1 above.

PREPARATION FOR TEACHER'S CERTIFICATE FOR SECONDARY SCHOOLS AT B. Y. U.

I. General Preparation: (Minimum of 57 hours as per general University requirements).

A. Twelve quarter hours in each of the following fields: social science, physical science, and biological science. The College of Education recommends that three hours of general physchology or practical psychology be included in the biological science group.

B. Eighteen hours in English. Students with foreign languages may substitute six hours in the English group.

C. Three quarter hours of physical education.

D. Courses in art, music, and speech are also recommended.

II. Professional Preparation (minimum 33 hours):

A. Psychological and Physical Foundations:

1. School Health 3 hrs.
2. Educational Psychology 3 hrs.
3. Either Growth and Development and Guidance or Adolescent Psychology 3 hrs.

B. Social and Legal Foundations:

1. Social foundations of Education or Philosophy of Education 3 hrs.
2. School Administration and Utah School Law 3 hrs.

C. Student Teaching, Curriculum and Methods:

1. Secondary School Curriculum and Methods 3 hrs.
2. Student Teaching with Related Special Methods and Curriculum.....12 hrs.

III. Special Academic Prepartion (minimum 60 hours):

A. Composite Majors:

Experience has shown that teachers on the secondary level are more qualified to serve the needs of the average high school when they are students of several related subjects rather than when they are trained in a single subject. (Recommended by State Department of Education).

It is recommended that as early as the beginning of the sophomore year prospective secondary school teachers select one of the groups of related subjects as their chosen field of instruction.

The composite major takes the place of the traditional major and minor. It must consist of not less than sixty hours of credit distributed in two or more related fields (preferably three) with not less than eighteen hours in any one subject.

For guidance in selecting and completing a composite major, students may consult with the Dean of the College of Education and with the chairman of the Department of Secondary Education whose responsibility it is, under cooperative advisement with the academic departments, to administer the composite majors which cut across two or more departments. Secondary teachers may use the approved composite teaching majors of sixty or more hours as degree majors in the College

of Education along with the professional major indicated above. (See Department of Secondary Education for detailed listing of composited majors).

B. Teaching Major and Minor:

Students who do not elect a composite major may select a teaching major and a teaching minor. The teaching major shall consist of thirty-six to forty-five quarter hours of a subject taught in Utah high schools and approved by the College of Education. At least half of the academic major shall be upper division work. The teaching minor shall consist of not less than twenty-four quarter hours in a subject taught in the secondary schools of Utah, one-third of which must be upper division work.

Graduate Work In Education

On the Graduate level the College of Education offers the following graduate majors: Education, Educational Administration, Educational Psychology, Elementary Education, Health, Physical Education and Recreation, Philosophy of Education and Guidance, and Secondary Education.

An adequate knowledge of undergraduate courses in Education is a prerequisite for graduate work in the field of Education. The graduate major professor will determine if a student is sufficiently qualified to undertake graduate study in a specific department in this field.

Credit in Education 218 (Research and Thesis Writing), or an equivalent course, is required of all candidates for the Master's degree in any department in the College of Education.

A student who plans to complete the requirements for the Master's degree in Education may choose his major professor from among the staff listed for graduate work in the department in which the student is majoring. The major professor and two additional members of the University faculty chosen by him will constitute the student's thesis committee. This committee will have the responsibility of directing the preparation of the thesis.

Students should read carefully the "Requirements for the Master's Degree" as found in the section of the catalogue devoted to the Graduate School.

DEPARTMENTS OF INSTRUCTION

Reuben D. Law, Dean

Professors Bishop, H. G. Clark, C. J. Hart, Holbrook, E. M. Jenson, Kimball, Law, Lloyd, H. Peterson, Romney, Woolf; Professors Emeritus W. H. Boyle, A. N. Merrill; Associate Professors M. H. Clark, A. J. Clarke, Sudweeks; Assistant Professors H. K. Christensen, F. W. Dixon, Hammond, A. B. Hart, Lewis, F. D. Madsen, Maeser, Millet; Instructors Bauer, Benson, Booth, Brailsford, Caine, Candland, Crowton, O. G. Dixon, Fisher, Gilbert, Henderson, Jackson, C. L. Jensen, Lees, McAllister, Mercer, G. L. Miller, Nilson, Soffe, Sorensen, Sparks, Strong, Tyndall, Watts, Wilson, Woodland, J. I. Young.

With the approval of the major professor, credit in courses in any of the education departments may be offered to fill major requirements.

Education

Professor Law, Chairman

131. Education Through Play Activities. (3) W. Holbrook

The theory of play considered biologically, historically, and currently, in the educational processes.

151. Social Foundations of Education. (3) A.W.S. M. H. Clark

This course is designed to acquaint the student with the place of education and the school in society. Consideration is given to the historical development of the school in American life and its fundamental nature in a democratic philosophy of education. (See also Philosophy of Education 151.)

152. Statistical Methods. (3) A. Staff

Measures of central tendency, dispersion, and simple correlation.

153. School Organization and Utah School Law. (3) A.W.S. Law

Considers the general way in which state and local school units are organized to conduct public education. Considers functions and powers of state departments, local school boards, and administrative officers. Stresses the way in which teachers adjust to the administrative system, and

shows how teachers are affected by contracts, salaries, ratings, leaves, transfers, promotions, etc. Refers also to National and global aspects of education. Required of all elementary and secondary school teachers. Meets Utah state requirements for a course in school organization. (See also Educational Administration 153.)

157. Materials and Methods in Safety Education. (2) W. Hart
(See Health 157.)

158. Health Education for Teachers. (3) A.W.S. Hart
Designed especially for those who are preparing to teach in the public schools.

163. Educational Psychology. (3) A.W.S. Woolf and Bishop
A brief consideration of certain important phases of the psychology of Education. The laws of economical learning, individual differences, and psychology of school subjects.

164. Educational Tests and Measurements. (3) A.S. Law and Bishop
A study of objective and standardized testing. Students in this course will undertake an actual program of testing, scoring, tabulating, interpreting results, and planning remedial instruction with the use of Training Schools as a laboratory.

166. Work Improvement in the Public Schools. (3) A. H. G. Clark
A practical plan to help the teacher, the supervisor, and the administrator get more and better non-teaching work activities done in less time and with less effort through the improvement of work methods. (See also Educational Administration 166.)

167. Periodical Educational Literature. (2) A.W.S. Sudweeks
Planned reading, reports, and discussion based upon selected material found in current magazines and periodicals.

171. History of Educational Thought. (3) A. Romney
A critical study of the contributions of the outstanding educational thinkers from the early Greeks to the present, and an evaluation of the various philosophies. (See also Philosophy of Education 171.)

172. History of Education in America. (3) S. Romney
The rise and development of the American Educational system as it has been affected by changes in American life from the colonial period to the present. (See also Philosophy of Education 172.)

175. Audio-Visual Instruction. (3) W.S. Tyndall

An introduction to the audio-visual field. Sources, selection, evaluation and utilization of audio-visual materials in the classroom in accordance with modern psychology of learning. Operation and care of projection equipment. Laboratory work will include making and collecting teaching materials, such as flat pictuures, slides, filmstrips, graphs, and charts.

176. Workshop in Audio-Visual Materials and Procedures for Teachers and Administrators. (3) S. Tyndall

185. Problems of the Teaching Profession. (3) A.W.S.
Law and staff

The work of professional associations of teachers, the P.T.A., and other similar organizations. Attention will be given to codes of ethics and ways of implementing these codes.

187. Character Education. (3) A. Lloyd

A study of various methods and techniques in character education that are now in use in the United States and an evaluation of the educational philosophy upon which each of these rests. Special attention will be given to recent trends in this field. (See also Philosophy of Education 187.)

193. Philosophy of Education. (3) A.S. Lloyd

This course is designed primarily to assist senior students in the achievement of a basic philosophy of education, growing out of the integrated experiences of university life. Special attention will be given to the American tradition in education, the qualities of an educated individual, and the role of the college graduate in the modern social order. (See also Philosophy of Education 193.)

197. Current Problems and Issues in Education. (3) A.W.S.
Law and staff

Designed principally for people with some experience in the field of education.

Graduate Courses

218. Introduction to Research and Thesis Writing. (3) A.W.S.
Staff

Three lectures each week with individual conferences and readings. A course in the principles of scientific investigation and the acceptable procedures of research. Given for

all of the graduate students in the University. This course or its equivalent required of all candidates for the Master's Degree in Education.

230-235. Independent Readings in Education. Maximum of two credit hours in any one quarter. Law and staff

Qualified students may read in fields not adequately covered in their course work and make an organized report of the information gained. This reading should be planned to meet the needs of the student's program. Registration by consent of instructor.

250-251. Seminar in Education. Law and staff

A seminar in educational research is organized any quarter for five or more graduate students. It provides an opportunity for qualified workers to extend their studies of educational problems and for graduate students to secure aid in pursuing and reporting their investigations.

252. Statistical Methods. (3) A. Pre-requisite: 20 hours of Education and Psychology. Staff

Measures of central tendency, dispersion, and simple correlation. Assumes reasonable competency in algebra.

253. School Organization, Administration, and Utah School Law. (3) A.W.S. Prerequisite: 20 hours of Education. Law

Considers the way in which state and local school units are organized and financed to conduct public education. Considers functions and powers of state departments, local school boards, and administrative officers. Stresses the way in which teachers adjust to and contribute to the administration of the school system. Refers also to national and global aspects of education. (See also Educational Administration 253.)

257-259. Research in Education. (2) Any quarter. Law and staff

Qualified students may pursue research in the field of Education and receive credit upon the satisfactory completion of a paper embodying the results of such research. Registration by consent of the instructor.

263. Educational Psychology. (3) A.W.S. Prerequisite: 20 hours of Education and Psychology. Woolf and Bishop

A consideration of certain important phases of the psychology of education. The laws of economical learning, individual differences, and psychology of school subjects.

264. Educational Tests and Measurements. (3) A.S. Law and Bishop

A study of objective and standardized testing. Students in this course will undertake an actual program of testing, scoring, tabulating, interpreting results, and planning improvements with the use of the Training Schools as a laboratory.

266. Work Improvement in the Public Schools. (3) A. H. G. Clark

A practical plan to help the teacher, the supervisor, and the administrator get more and better non-teaching work activities done in less time with less effort through the improvement of work methods. (See also Educational Administration 266.)

267. Periodical Educational Literature. (2) A.W.S. Sudweeks

Planned reading, reports, and discussion based upon selected material found in current magazines and periodicals.

269. Advanced Educational Psychology. (3) W. Staff

270. Advanced Statistics in Education. (3) W. Staff

271. History of Educational Thought. (3) A. Romney

A critical study of the contributions of the outstanding educational thinkers from the early Greeks to the present and an evaluation of the various philosophies. (See also Philosophy of Education 271.)

272. History of Education in America. (3) S. Romney

The rise and development of the American educational system as it has been affected by changes in American life from the colonial period to the present. (See also Philosophy of Education 272.)

275. Audio-Visual Instruction. (3) W.S. Tyndall

Attention is given to the audio-visual field. Sources, selection, evaluation and utilization of audio-visual materials in the classroom in accordance with modern psychology of learning. Operation and care of projection equipment. Laboratory work will include making and collecting teaching materials, such as flat pictures, slides, filmstrips, graphs, and charts.

276. Workshop in Audio-Visual Materials and Procedures for Teachers and Administrators. (3) S. Tyndall

285. Problems of the Teaching Profession. (3) A.W.S. Law and staff

The work of professional associations of teachers, the

P.T.A., and other similar organizations. Attention will be given to codes of ethics and ways of implementing these codes.

287. Character Education. (3) A. Lloyd

A study of various methods and techniques in character education that are now in use in the United States and an evaluation of the educational philosophy upon which each of these rests. Special attention will be given to recent trends in this field. (See also Philosophy of Education 287.)

289. Mental Hygiene for Teachers and Other School Workers. (3) S. Staff

293. Philosophy of Education. (3) A.S. Lloyd

This course is designed primarily to assist students in the achievement of a basic philosophy of education, growing out of the integrated experiences of university life. Special attention will be given to the American tradition in education, the qualities of an educated individual, and the role of the college graduate in the modern social order. (See also Philosophy of Education 193.)

297. Current Problems and Issues in Education (3) A.W.S. Law and staff

Designed principally for people with some experience in the field of education.

Educational Administration

Dean Law

153. School Organization and Utah School Law. (3) A.W.S. Law

The general system for administering public education. Powers of legislatures, state boards of education, local school boards, and administrative officers. How the teachers contacts the administrative system and adjusts to it. Problems of contract, salary, promotion, retirement. Refers also to national and global aspects of Education. (See also Education 153.)

166. Work Improvement in the Public Schools. (3) A. H. G. Clark

A practical plan to help the administrator, the supervisor, and other employees of the school district get more and better non-teaching work activities done in less time

and with less effort through the improvement of work methods. (See also Education 166.)

193. The Organization and Administration of Public Schools (5) A.S. Bishop and staff

Ways in which public schools are controlled and ways in which states, counties, cities and local districts are organized for conduct of public education. The foundation course for majors in administration. Elective for advanced students in other departments of education.

Graduate Courses

201-210. Independent Readings in Organization, Administration, and Supervision Credit to be arranged. Any quarter. Staff

An individual study plan by which students may study under direction in areas in which courses are not offered or in fields of interest beyond the courses available. The plan may be used to complete a program in harmony with the student's needs, to build up backgrounds for more advanced courses, or to complete individual projects related to the student's professional work. Permission to register is granted by the instructor.

211. Public School Finance I. (5) A. Staff

The theory and practice of financing public education in the American states. Emphasis in this course is put upon revenue systems. An enlarged reading program is part of the course.

212. Public School Finance II. (5) W. Staff

The business management of school systems. Expenditures, costs, purchases, accounting, and the school budget.

213. Personnel Problems. (3) W. Staff

Problem of the teaching staff; training, selection, assignment, promotion, retirement. Contract, tenure, salaries.

216. Public School Building Programs. (3) S. Staff

ow to project a school building program and to finance it. How to integrate the curriculum, the school organization, the buildings, and the school transportation system. Management and care of school plants.

220. Adult Education Programs. (3) Clark

Basic principles and skills involved in the organization and administration of adult education programs in the community.

250. Seminar in Education. Law and staff

A seminar in educational research is organized any quarter for five or more graduate students. It provides an opportunity for qualified workers to extend their studies of educational problems and for graduate students to secure aid in pursuing and reporting their investigations.

253. School Organization and Utah School Law. (3) A.W.S. Law

Considers the general way in which state and local school units are organized to conduct public education. Considers functions and powers of state departments, local school boards, and administrative officers. Stresses the way in which teachers adjust to the administrative system, and shows how teachers are affected by contracts, salaries, ratings, leaves, transfers, promotions, etc. Shows the opportunities for teachers to contribute to good school administration. Also considers national and international aspects of education. (See also Education 253.)

266. Work Improvement in the Public Schools. (3) A. H. G. Clark

A practical plan to help the administrator, the supervisor, and other employees of the school district get more and better non-teaching work activities done in less time and with less effort through the improvement of work methods. (See also Education 266.)

286. Developing In-Service Training Programs for School Personnel. (3) W. H. G. Clark

293. The Organization and Administration of Public Schools. (5) A.S. Bishop and Staff

Ways in which public schools are controlled and ways in which states, counties, cities, and local districts are organized for conduct of public education. The foundation course for majors in administration with emphasis on the work of the superintendent in relation to the entire school system and related organizations. Elective for advanced students in other departments of education.

295. Supervision of Education. (3) S. Law and Bishop

A study of the problems involved in school supervision in the light of present day practice and theory in this field. (Accompanied by laboratory work.)

296. The Work of the Secondary School Principal. (3) S. Woolf

Administering a single school. Organization, schedules, staff selection and placement, rating, reports, supply, admin-

istration, pupil guidance, and public relations. For men and women preparing for administrative opportunities. (See also Secondary Education 296.)

298. The Elementary School Principalship. (3) W. Bishop
The work and responsibilities of the elementary school principal in the modern, non-departmentalized elementary school. (See also Elementary Education 298.)

300. The Master's Thesis in Educational Administration. Credit to be arranged. Any quarter.
Law, Bishop, H. G. Clark, Woolf

Elementary Education

Professor Bishop, Chairman

A major in Elementary Education (45 quarter hours) should include Education 151 or 193, Education 153, 158, 163, Elementary Education 160, 165, 181, 182, 184, 190. Either Elementary Education 192 or 164 as a recommended elective should also be included if possible. Other electives for the major may be selected from the various departments in Education and Psychology.

Major students in Elementary Education should, with the approval of the major professor, select a minor which is applicable to elementary school teaching.

Supporting fields must include four hours in Children's Literature and four hours in games and rhythms for elementary school children (Physical Education 120 and 121). A course in piano music for teachers is highly recommended for those who do not already play the piano. The remaining work in supporting fields is to be selected with the approval of the head of the department of Elementary Education, selection to be made with a view to strengthening and broadening the academic and cultural background needed by the teacher in the elementary school. Elementary teachers need broad understanding regarding children and great versatility in many subject matter fields to a much greater extent than they need extensive academic specialization in a single subject. However, the desired courses should be selected so as to provide at least thirty hours in a given area of interest, such for example, as language arts, or science, or social science, or some other area included in the elementary school. The degree minor may serve as this area.

The group requirements for the degree of Bachelor of Science or Bachelor of Arts are listed elsewhere in the catalogue. In filling

these group requirements, the student should be guided by the following: The Biological Science group should include a course in either Bacteriology, Botany, or Zoology, and a course in Landscape Architecture (1). The Physical Science group should include a course in Earth Science and other courses needed to enlarge the teachers' background in science. The Social Science group should include courses in Sociology, Economics, Poltical Science, and History. Western History is especially recommended. The freshman and sophomore years should be devoted largely to building up a broad and rich academic background, leaving the professional work in Education for the junior and senior years, with the possible exception of Elementary Education 160 and Education 151 which may be taken during the Sophomore year.

156. Industrial Arts and Crafts for Elementary Teachers. (2) A.S. Staff

A practical course in handicrafts. Students will participate in simple pottery-making, book-making, spinning, weaving, dyeing, and other craft processes that can be carried on by children in the elementary school. (There will be a small fee for materials.)

159. Arts and Crafts for Early Childhood. (2) Staff

A practical course in handicrafts for teachers in kindergarten and first grade. (There will be a small fee for materials.)

160. Child Growth and Development for Elementary Teachers. (3) A.W.S. Laboratory work to be arranged. Peterson and Staff

The classwork and study in the field of child development will be based upon observation of child behavior. This course meets a state requirement for elementary certification and may be taken by sophomores, juniors, or seniors, preceding the courses in curriculum and methods.

165, 166, 167. Art for Elementary School Teachers. (3-3-3) A.W.S. Jenson and Fisher

Materials and procedures for stimulating and guiding child development in the various phases of art in the elementary school. Attention will be given to the relationship of art to the entire school program. (See Art 68, 69, 70 and 168, 169, and 170.)

168. Children's Literature. (5) A.W.S. Hammond

A study from the literary and educational points of view of the best literature available for children. Also, an introductory treatment of a simplified system of classifying, cataloging, and operating an elementary school library.

181. Elementary Curriculum and Methods. (5) A. Prerequisite: Fifteen hours of selected work in education.
Peterson, Bishop, Candland, Woodland

This course deals with the curriculum and the materials of the elementary school together with methods in elementary education. It must be taken before or parallel with Elementary Education 184. Require for certification. Limited to seniors and graduate students.

182. Elementary Curriculum and Methods. (5) W. Prerequisite: Elementary Education 181.
Peterson, Bishop, Candland, Woodland

This is a continuation of Elementary Education 181. It should be taken parallel with Elementary Education 184. Required for certification.

183. Elementary Curriculum and Methods. (3) S. Prerequisite: Fifteen hours in education. Peterson, Candland, Woodland

This course is designed especially for experienced elementary teachers and secondary teachers who wish to get some training on the elementary school level. Secondary teachers who qualify also for elementary teaching certificates are required to complete this course. Limited to seniors only.

184. Student Teaching. (6) A.W.S. Prerequisites: Fifteen hours of selected educational work, including Elementary Education 160, Education 153 and 163, and passing of subject matter tests administered by the College of Education. Elementary Education 181 and 182 should precede or parallel this course. Bishop, Peterson, and Staff

This is essentially a laboratory course affording opportunity for student teachers to apply the principles of teaching developed in Elementary Education 181 or 182. Teachers should reserve the 4:00 o'clock hour on Tuesdays and Thursdays for supervisory meetings.

Application for elementary sudent teaching must be made to the head of this department at least three months prior to registering for this course. Registration is contingent upon the granting of the application by a committee in the department which has been appointed for the purpose. The facilities of the training school are limited. Only those regularly enrolled in the College of Education may be admitted to elementary student teaching.

190. Music for Elementary School Teachers. (3) A.W.S. Prerequisite: two credit hours in theory of music. (Theory of Music 1 or 11 or the equivalent.) McAllister

Materials and procedures for stimulating and guiding child development in the various phases of music in the elementary

school. Attention will be given to the relationship of music to the rest of the school program. (See Theory of Music 190.)

192. **Early Childhood Education.** (3) S. Hammond, Peterson

Problems of early elementary education will be considered. A study of the activities, subject matter and concrete materials which should form the basis of the work with young children. Classroom observation required.

Graduate Courses

230-235. **Independent Readings in Elementary Education.** (Maximum of two credit hours in any one quarter.)
Law and Bishop

Qualified students may read in fields not adequately covered in their course work and make an organized report of the information gained. This reading should be planned to meet the needs of the student's graduate program. Registration by consent of instructor.

244. **Advanced Student Teaching for Elementary Schools.** (3-6) A.W.S. Peterson and Bishop

Designed for experienced teachers, supervisors, and administrators who desire further study and experience in working with children. Application for this work should be made in advance. Students may register for the course only upon the approval of the chairman of the Department of Elementary Education.

250-251. **Seminar in Education.** Any quarter. Time to be arranged. Law, Bishop, and Staff

A seminar in educational research is organized any quarter for five or more graduate students. It provides an opportunity for qualified workers to extend their studies of educational problems and for graduate students to secure aid in pursuing and reporting their investigations.

254. **Science Teaching in the Elementary School.** (3) Bishop

A study of science as an essential part of the curriculum. Includes the use of content from the physical and biological sciences.

257-259. **Research in Elementary Education.** (2) Any quarter. Law and Bishop

Qualified students may pursue research in the field of elementary education and may receive credit upon the satisfactory completion of a paper embodying the results of such research. Registration by consent of the instructor.

260. **Child Growth and Development for Elementary Teachers.** (3) A.W.S. Laboratory work to be arranged. Peterson

The classwork and advanced study in the field of child development will be based upon observation of child behavior.

261. **Teaching Language Arts in the Elementary School.** (3) Maeser and Bishop

Considers curriculum materials and procedures involved in teaching the language arts in relation to all phases of student experience.

279. **Recent Developments in the Teaching of Reading.** (3) Bishop and Peterson

A study of theory and practice in the teaching of reading with special attention to the results of recent research in this and related fields.

282. **Elementary School Curriculum and Methods.** (5) W. Prerequisite: Elementary Education 181 or its equivalent. Bishop and Peterson

This course deals with the curriculum and the materials of the elementary school together with methods in elementary education.

283. **Recent Trends in Elementary Education.** (3) S. Prerequisite:20 hours in education. Law, Peterson, Bishop

A study of modern practice and theory in the field of elementary school teaching.

286. **Curriculum Building in Elementary Schools.** (3) W. Law, Peterson, Bishop

A study of basic principles, procedures, materials and other considerations involved in curriculum building in elementary schools. This course is designed to assist in meeting the state requirements for a certificate in elementary school supervision, and to provide opportunity for advanced study in this field by experienced teachers, supervisors, and administrators.

292. **Early Childhood Education.** (3) S. Hammond

Problems of early elementary education will be considered. A study of activities, subject matter and concrete materials which should form the basis of the work with young children. Classroom observation required.

295. **Supervision of Education.** (3) S. Law, Bishop

A study of the problems involved in elementary school

supervision in the light of present day practice and theory in this field. (Accompanied by laboratory work.)

298. The Elementary School Principalship. (3) W. Bishop

The work and responsibilities of the elementary school principal in the modern, nondepartmentalized elementary school.

300. The Master's Thesis. Any quarter. Prerequisite: Credit in Educational Administration 118, or an equivalent course. Law, Bishop

Credit of four to six hours is given upon the completion of an acceptable thesis that embodies the results of independent research upon a significant problem in some field of concentration. Students should read the section of the catalogue that contains the requirements of the graduate school.

Health, Physical Education, and Recreation

Professor Hart, Chairman
Professors Hart, Kimball, Holbrook, Martin, Tanner;
Associate Professors Merrill, Hayward;
Assistant Professors Dixon, Millet;
Mr. F. Anderson, Mrs. Benson,
Mr. Soffe, Mrs. Henderson,
Miss Lees, Mr. Nilsen,
Mr. Watts

The department of Health, Physical Education, and Recreation offers courses in these three areas to meet freshman requirements, graduation requirements, and elective desires of students.

Each freshman student is required to take Health 1 and to register for one lower division physical education course during each quarter of his freshman year. A variety of activities is available for choice. Three quarters of activity will provide the opportunity for organic development, neuromuscular skill, social contact in game and team situations, and other carry-over values.

Extra-curricular activities are promoted for student participation: games, sports, hikes, dancing, and intramural athletics. The department urges all students to participate regularly in some form of physical activity.

The Brigham Young University is a member of the Mountain States Athletic Conference. A full schedule of interscholastic athletic competition, as sponsored by the Conference, is participated in by the school.

Students using the towel service are required to make a 50 cent deposit by purchasing a towel check. The towel check is exchangable for towel service during school hours. Towel checks are redeemable at any time.

A thorough physical and medical examination will be given each freshman student upon entering the institution.

Students registered for physical education activity courses are required to provide themselves with the official uniform which may be purchased at the University book store. They are also required to provide themselves with an approved combination padlock for use on basket locker.

The department offers work leading to a Major in Physical Education, a composite Major in Health and Physical Education and a Minor in Health, Physical Education or Recreation.

PHYSICAL EDUCATION MAJOR

Students majoring in Physical Education will take the following courses: Physical Education 51, 52, 53, 54, 55, 56, 88, 89, 130, 133, 140, 141, 146; Recreation 131; Health 195. In addition to the above, men majors will take Physical Education 101, 102, and 103. Women majors will take 80, 81, 82, 83, 84, 85, and 87.

PHYSICAL EDUCATION MINOR

Students desiring to minor in Physical Education should take the following courses: Physical Education 51, 52, 53, 54, 55, 56, 88, 130, 141. In addition to the above, men minoring in Physical Education should take 101, 102, and 103. Women minors should take 80, 81, and 82 and an additional three hours to be elected.

HEALTH MINOR

Students may minor in Health by completing the following courses: Health 1, 21, 22, 45, 50, 157, 158, 160, 169, and 195.

RECREATION MINOR

A minor in Recreation is offered by completing the following courses: Recreation 63, 80, 131, 133, 163, 164, Physical Education

88 and 89 and ten additional hours to be elected from the following: Physical Education 11, 12, 30, 31, 32, 46, 52, 53, 54, 55, 56, 70, 120, 121, and Recreation 27, 44, and 45.

Health

Lower Division Courses

1. Personal Hygiene. (1) A.W.S. Two lectures per week. Staff

This course is required of all freshmen students. The course is designed to present in a popular manner problems concerning personal hygiene and proper health habits.

21. Bacteriology. (3) A.W.S. (See Bacteriology 21.)
Anderson, Farnsworth, Martin

22. Bacteriology Laboratory. (2) A.W.S. One Section M.W. Two Sections T.Th. Martin

Laboratory course in general bacteriology, designed to accompany Health 21. (See Bacteriology 22.)

45. Vertebrate Anatomy and Physiology. (5) A.S. Three Lectures and two two-hour laboratory periods per week.
H. Nicholes

A general course organized particularly for prospective teachers in elementary and secondary schools and for students in home economics and physical education. In the laboratory the anatomy of the embalmed cat and the physiology of vertebrates in general will be correlated with human anatomy and physiology. It is recommended that Zoology 11 precede this course. (See also Zoology 45.)

50. Elementary Nutrition. (3) A.W.S. Barlow

The study of the fundamentals of nutrition and the use of the diet in maintaining physical fitness. Open to men and women. Required of majors in Physical Education.

Upper Division Courses

125. Mental Hygiene. (3) W. Prerequisite: Psychology 11 or equivalent. Poulson

Intended to yield insight toward the prevention and amelioration of mental and personal difficulties. Important for prospective parents, teachers, and social workers. (See also Psychology 125.)

157. Materials and Methods in Safety Education. (2) Hart

The course will be broad in scope, yet will give emphasis to such matters as protecting the school child; safety education in the schools; safety in the home, on the farm and in industry; traffic safety; bicycle safety; and sources and selection of materials.

158. Health Education for Teachers. (3) A.W.S. Hart

Designed especially for those who are preparing to teach in the public schools.

160. Public Health and Sanitation. (3) S. Anderson

The principles of public health, emphasizing facts vital to the public welfare such as the safety of water and milk supplies, sewage disposal, prevention of disease, the venereal disease problem and vital statistics. Information of value to teachers, community leaders, and citizens. (See also Bacteriology 160.)

165. General Physiology. (5) W. Three lectures, two two-hour laboratory periods per week. Prerequisite: Zoology 13. A course in organic chemistry is recommended. H. Nicholes

The general physiology of cells and tissues, a study of the physical, chemical, and biological systems which operate as parts of the living organism and in the fundamental life processes. The work of this quarter will include study of the sensory receptors, the nervous system, the muscles, and the endocrine glands.

166. Human Physiology. (5) S. Three lectures, two two-hour laboratory periods per week. Prerequisite: Zoology 165. H. Nicholes

The physiology of the human circulatory, respiratory, digestive, excretory, and reproductive systems.

195. First Aid. (3) A. Hart

Principles of first aid treatment of injuries, massage, physio-therapy, bandaging, and the essentials of conditioning. Those successfully completing the course will be given the official American Red Cross Standard and Advanced First Aid Certificates.

Graduate Courses

257. Materials and Methods of Safety Education. (2) W. Hart

269. Mental Hygiene. (3) S. Poulson

Physical Education

I. MEN'S ACTIVITY COURSES

Lower Division Courses

1, 2, 3. Elementary Physical Education. (1-1-1) A.W.S. Staff
These courses will include games, and a variety of athletic and gymnastic activities.

11. Volley Ball. (1) A.W.S. Two periods each week.

12. Badminton. (1) W. Two periods each week. Dixon

17. Boxing. (1) A.W. Three periods each week. Staff
This course will consist of the theory and practice of boxing.

18. Wrestling. (1) A.W. Three periods each week. Nilsen
This course will consist of the theory and practice of wrestling.

24. Fencing. (1) W. Three periods each week. (Not given this year.) Staff
Open to both men and women. Students will furnish their own equipment.

30. Golf. (1) S. Two periods each week. Provo Municipal Golf Course. Fee: $2.50 payable at Treasurer's Office. Permission to withdraw refund restricted. Dixon
This course will consist of the theory and practice of golf. Students will be required to furnish their own equipment.

31. Tennis. (1) Three periods each week. Dixon
This course will consist of the theory and practice of tennis. Limited to 24 students per class. Not open to freshmen. By permission of instructor only.

32. Skiing. (1) W. Saturday, or as scheduled. Fee: $10.00 payable at Treasurer's Office. Permission to withdraw refund is restricted. Holbrook
First year skiing for participants of varying abilities. Sections will be formed and instruction will be given in the fundamentals of climbing, touring, cross country, downhill, and slalom.

41. Advanced Tennis. (1) S. Three periods each week. Prerequisite: Physical Education 31, or admission by permission of instructor. Dixon
Advanced course in the theory and practice of tennis.

42. **Advanced Skiing.** (1) W. Two periods each week. Fee: $10.00 payable at Treasurer's Office. Permission to withdraw refund is restricted. Holbrook

46. **Archery.** (1) A.S. Five periods each week. Holbrook

This course aims to develop individual techniques, providing experience in various types of tournaments and related archery activities.

51. **Skills and Techniques.** (2) A. Three double periods each week. Anderson

Soccer, speedball, touch football, apparatus and tumbling.

52. **Skills and Techniques.** (2) W. Three double periods each week. Dixon, Anderson

Marching, volley ball, basketball, handball, calisthenics.

53. **Skills and Techniques.** (2) S. Three double periods each week. Soffe, Anderson

Games, contests, relays, mass athletics, archery, softball.

54. **Skills and Techniques.** (2) A. Three double periods each week. (Not given this year.) Dixon and Anderson

Six-man football, tennis, badminton, apparatus, tumbling stunts and pyramids.

55. **Skills and Techniques.** (2) W. Three double periods each week. (Not given this year.) Dixon and staff

Boxing, wrestling, bowling.

56. **Skills and Techniques.** (2) S. Three double periods each week. (Not given this year.) Dixon and staff

Golf, swimming, track, mass combatives.

70. **Tumbling.** (1) A.W. Three periods each week. Millet

72. **Gymnastics and Tumbling.** (1) A.W.S. Three periods each week. Staff

This course will give experience and develop skills in various types of gymnastic work. It will include work on the parallel bars, high and low bars, horse, and mats.

87. **Elementary Tap Dancing.** (1) A.W.S. Two period each week. Lees

Simple routines and rhythms will be taught and worked out to old-time and modern music. Emphasis will be placed upon the recreative rather than the professional aspects of the activity.

88. Folk and Country Dancing. (1) W. Three periods each week. Lees

89. American Folk Dancing. (1) A.W.S. Three periods each week. Holbrook and Henderson

Square and round dances of the United States and dances of the Americas.

II. WOMEN'S ACTIVITY COURSES

1, 2, 3. Elementary Physical Education. (1-1-1) A.W.S. Three periods each week. Staff

These courses will include games, and a variety of athletic and gymnastic activities.

10. Basketball for Beginners. (1) W. Two periods each week. Staff

11. Volley Ball. (1) A.W.S. Two periods each week. Staff

12. Badminton. (1) A.S. Two periods each week. Staff

20. Intermediate Basketball. (1) Two periods each week. Benson

24. Fencing. (1) W. Three periods each week. (Not given this year.) Staff

Students will furnish their own equipment.

30. Golf. (1) S. Saturday. Provo Municipal Golf Course. Fee: $2.50 payable at Treasurer's Office. Permission to withdraw refund restricted. Dixon

This course will consist of the theory and practice of golf. Students will be required to furnish their own equipment.

31. Tennis. (1) S. Three periods each week. Dixon

This course will consist of the theory and practice of tennis. Limited to 24 students per class. Not open to freshmen. By permission of instructor only.

32. Skiing. (1) W. Saturday, or as scheduled. Fee: $10.00 payable at Treasurer's Office. Permission to withdraw refund is restricted. Holbrook and Benson

First year skiing participants of varying abilities. Sections will be formed and instruction will be given in the fundamentals of climbing, touring, cross country, downhill and slalom.

33. Field Sports. (1) Two periods each week. Staff
Soccer, speedball, and hockey.

35. Hockey. (1) A. Daily. Henderson

36. Softball and Spring Activities. (1) S. Five periods each week. Staff

41. Advanced Tennis. (1) S. Three periods each week. Prerequisite: Physical Education 19, or admission by permission of instructor. Dixon

Advanced course in the theory and practice of tennis.

42. Advanced Skiing. (1) W. Two periods each week. Fee: $10.00 payable at Treasurer's Office. Permission to withdraw refund is restricted. Miller and Holbrook

44. Hiking. (1) S. Saturday, or later as scheduled. Fee: $5.00 payable at Treasurer's Office. Permission to withdraw refund is restricted.

Hikes will be taken in the canyons and mountains of the vicinity. Short hikes are planned for the beginning of the season; and longer, more strenuous climbs will be taken at the end of the quarter.

45. Horseback Riding. (1) A.S. Two periods each week. Fee: $20.00 payable at Treasurer's Office. Permission to withdraw refund is restricted. Holbrook and Benson

Group instruction in riding with a development in the techniques and with instruction in the "aids." Correct handling of horses, and the development of gait will be taught. Progress will be graded from the beginning phases of horseback riding.

46. Archery. (1) A.S. Five periods each week. Holbrook

This course aims to develop individual techniques, providing experience in various types of tournaments and related archery activities.

51. Skills and Techniques. (for Majors) (2) A. Three periods each week. Holbrook

Soccer, speedball, tennis, body mechanics.

52. Skills and Techniques. (for Majors) (2) W. Three periods each week. Holbrook and Staff

53. Skills and Techniques. (for Majors) (2) S. Three periods each week. Holbrook and Staff

Group games and relays, outdoor games, track and field, and golf.

54. Skills and Techniques. (for Majors) (2) A. Three periods each week. (Not given this year.) Holbrook and Staff

Hockey, badminton, practice and tests in activities calling for coordination, balance, flexibility, agility, and timing.

55. Skills and Techniques. (for Majors) (2) W. Three periods each week. (Not given this year.) Holbrook and Staff

Basketball, handball, rope jumping.

56. Skill and Techniques. (for Majors) (2) S. Three periods each week. (Not given this year.) Holbrook and Staff

Recreational sports, field ball, softball, swimming and archery.

70. Tumbling. (1) A.W.S. Three periods each week. Staff

Simple tumbling events in keeping with beginner's ability will be taught as foundation work. Other items will be given to develop skill and coordination for the fun and satisfaction of the performers.

80. Modern Dance. (1) A. Three periods each week. Lees

81. Modern Dance. (1) W. Three periods each week. Lees

Development of techniques into dance studies and single forms in composition.

82. Modern Dance. (1) S. Three periods each week. Staff

Intermediate and advanced techniques.

83. Advanced Modern Dance. A. Three periods each week. Lees

Advanced form of dance composition.

84. Advanced Modern Dance. W. Three periods each week. Lees

85. Advanced Modern Dance. S. Three periods each week. Lees

A survey course in dance from kindergarten to college. Methods of presenting a follow-through program in teaching, program of planning and organization.

87. Elementary Tap Dancing. (1) A.W. Two periods each week Lees

Simple routine and rhythms will be taught and worked out to old-time and modern music. Emphasis will be placed upon the recreative rather than the professional aspects of the activity.

88. Folk and Country Dancing. (1) W. Two periods each week. Lees

89. American Folk Dancing. (1) A.W.S. Holbrook, Henderson

Square and round dances of the United States and dances of the Americas.

PROFESSIONAL COURSES IN PHYSICAL EDUCATION MEN AND WOMEN

Upper Division

101. Athletic Coaching and Directing—Football. (3) A. Kimball

This course is designed to prepare students for the coaching of football. It will deal with the fundamentals of the game, methods of working out plays, systems of offense and defense, and conditioning of teams, etc.

102. Athletic Coaching and Directing—Basketball. (3) W. Millet

Designed to prepare for the coaching of basketball. Students will be thoroughly instructed in fundamentals, offensive and defensive systems, schedule making, etc.

103. Athletic Coaching and Directing—Track and Field. (3) S. Millet

This course will deal with the technique of track and field athletics and with the management of meets.

106. Officiating Football. (1) A. Watts

Designed for those who desire training and experience in officiating. It should prove helpful to majors and minors in physical education, as well as those who plan to do professional officiating. Rules, techniques, problems, and procedures in officiating football will be covered.

107. Officiating Basketball. (1) W. Millet and Watts

This course is designed to aid those who desire to qualify as basketball officials or who wish an intimate knowledge of rules and regulations of the game.

120. Physical Education for Elementary Teachers. (2) A. Holbrook and Henrichsen

This course, required of all elementary majors, will include fundamentals of physical education in small and large play, and team activities.

121. Physical Education for Elementary Teachers. (2) S. Henrichsen and Holbrook

This course, required of all elementary teachers, is a continuation of Physical Education 120 and includes activities, stunts, and classroom games.

130. Principles of Physical Education. (3) W. Millet

This course aims to acquaint the students with the philosophy and principles underlying physical education in order that they may gain a general comprehension and unified view of the entire subject.

133. Organization and Administration of Physical Education, Health, and Recreation. (3) S. Hart

The executive and administrative problems arising out of organizing and conducting health, physical education, and recreation programs in schools and communities.

140. Physiology of Activity. (3) W. Prerequisite: Zoology 45. Nicholes

A study of the processes which occur in the body during exercise. Special attention will be given to the effects of exercise upon circulation, respiration, and metabolism.

141. General Kinesiology. (3) A. Prerequisite: Zoology 45. Dixon

The anatomy of the human body with emphasis upon the study of bones, joints, and the skeletal muscles. Athletic exercise will be studied, with reference to their effect upon the body.

146. Adaptation of Activities in Corrective Procedure. (3) S. Prerequisites: Zoology 45, Physical Education 141. Hart

The variation of posture, the mechanics of balancing of the forces in the body, psychology of individual gymnastics, methods of stimulating interest in posture, and the selection and scope of corrective activities.

154. Introduction to Achievement Tests in Physical Education. (5) W. Hart

This course reviews the history of tests in physical education and also gives consideration to the essential procedure used in evaluating such tests and their results.

190. Seminar in Physical Education. Time and credit to be arranged. Staff

192. Research in Physical Education. Staff

194. Readings in Physical Education. Staff

Graduate Courses

230. Principles of Physical Education. (3) W. Millet

233. Organization and Administration of Physical Education, Health, and Recreation. (3) S. Hart

240. Physiology of Activity. (3) W. Prerequisite: Zoology 45. Kimball

246. Adaptation of Activities in Corrective Procedure. (3) S. Open to both men and women. Prerequisites: Zoology 45, Physical Education 141. Hart

254. Achievement Tests in Physical Education. (5) W. Hart

290. Seminar in Physical Education. Time and credit to be arranged.

292. Research in Physical Education. Time and credit to be arranged.

294. Readings in Physical Education.

300. The Master's Thesis in Physical Education. Credit by arrangement.

RECREATION

Lower Division Courses

44. Hiking. (1) S. Saturday or later as scheduled. Fee: $5.00 payable at Treasurer's Office. Staff

Hikes will be taken in the canyons and mountains of the vicinity. Short hikes are planned for the beginning of the season; and longer, more strenuous climbs will be taken at the end of the quarter.

45. Horseback Riding. (1) A. Two periods each week. Fee: $20.00 payable at Treasurer's Office. Holbrook

Group instruction in riding with a development in the techniques and with instruction in "aids." Correct handling of horse, and the development of gait will be taught. Progress will be graded from the beginning phases of horseback riding.

63. Crafts. (1) Three periods each week. Birrell

Leather, wood, rafia, and reed used as basis for creative design.

67. Fly-Tying. (1) S. One period of two hours each week. Staff

Instruction and practice in fly-tying will be given. Certain equipment including a vise, feathers, thread, and hooks will be required of all students.

80. Social Dancing. (1) A.W. Staff

Open to freshman and sophomore men and women. Permission must be obtained from instructor before registering. Credit in this course does not substitute for freshman physical education requirement.

Upper Division Courses

131. The Theory of Play. (3) A. Holbrook
The theory of play and its organization. Gives consideration to the history and classification of play, the need for play in modern life, and play in education.

133. Organization and Administration of Recreation. (3) S. Staff

187. Planning for Social Recreation. (2) A.W.S. Staff
Principles and techniques in arranging for and conducting social recreation for family and church groups.

188. Recreation Leadership. (2) A.W.S. Hart
This course is given to meet the needs of community, church and school recreation leaders. Open to juniors and seniors.

190. Seninar in Recreation. Time and credit to be arranged. Staff

192. Research in Recreation. Staff

194. Readings in Recreation. Staff

Graduate Courses

231. Theory of Organized Play. (3) A. Holbrook

290. Seminar in Recreation. Time and credit to be arranged. Staff

292. Research in Recreation. Staff

294. Readings in Recreation. Staff

Philosophy of Education and Guidance

Professor Lloyd, Chairman

Students who elect to major in this department must present thirty-six hours of credit approved by the department. Psychology 11, Education 152, and Philosophy of Education 193, or their equivalent, are required of major students.

151. Social Foundations of Education. (3) A.W.S. Clark
This course deals with social and professional aspects of teaching, including some basic philosophies underlying

American education. It emphasizes the place of education in the democratic social process.

152. The Development of Social Theory. (3) W. Bradford
The evolution of social theories beginning with Plato, a consideration of developments in the early Christian Era, and the Medieval and modern social theorists.
(See Sociology 102.)

168. Abnormal Psychology. (3) W. Allen
(See Psychology 139.)

169. Mental Hygiene. (3) S. Poulson
(See Psychology 125.)

170. Clinical Psychology. (3) S. Allen
(See Psychology 130.)

171. History of Educational Thought. (3) A. Romney
A critical study of the contributions of the outstanding educational thinkers from the early Greeks to the present, and an evaluation of the various philosophies.

172. History of Education in America. (3) W. Romney
The rise and development of the American educational system as it has been affected by changes in American life from the colonial period to the present.

176. Psychological Tests. (3) A. Allen
(See Psychology 171.)

177. An Introduction to the Field of Social Work. A. Ballif
(See Sociology 144.)

179. Group Test Practice. (2) A.W. Laboratory hours to be arranged. Allen
(See Psychology 179.)

180. Fundamentals of Guidance. (3) S. Romney
A basic course for students seeking comprehensive information in the history, principles, and practices of guidance.

181. History of Philosophy. (3) A. Swenson
A history of the rise and development in the Greek, Graeco-Roman, medieval, renaissance, eighteenth century, and modern periods. Stress is laid upon an appreciation of the outstanding philosophers of the various schools of thought.

182. Occupations. (3) A.S. Clark

Occupational information for guidance purposes. This course deals with the task of gathering, classifying, and using occupational information. Job descriptions and job analyses are also treated. The whole is integrated with good counseling techniques.

187. Character Education. (3) A. (Not given this year.) Lloyd

A study of various methods and techniques in character education that are now in use in the United States and an evaluation of the educational philosophy upon which each of these rests. Special attention will be given to recent trends in this field.

188. Administration of Student Personnel Service. (3) A. Lloyd

Attention is given to the administrative organization of personnel services. The course includes a study of admissions, student health service, employment, curricular and extra-curricular activities, cumulative records, and techniques of the interview.

190. Social Ethics. (3) A. Lloyd

A treatment of ethical theory as applied to modern social, industrial, and professional problems. Consideration is given to Puritan ethics, individualism, Christian ethics, international good will, and world peace.

193. Philosophy of Education. (3) W. Lloyd

This course is designed primarily to assist senior students in the achievement of a basic philosophy of education, growing out of the integrated experiences of university life.

Graduate Courses

269. Mental Hygiene. (3) S. Poulson

(See Psychology 225.)

270. Clinical Psychology. (2) S. Prerequisite: Psychology 11, or equivalent. Allen

271. History of Educational Thought. (3) A. Romney

A critical study of the contributions of the outstanding educational thinkers from the early Greeks to the present, and an evaluation of the various philosophies.

272. History of Education in America. (3) W. Romney

The rise and development of the American educational system as it has been affected by changes in American life from the colonial period to the present.

273. Comparative Education. (3) S. Romney

A comparative study of educational systems, ideologies, and philosophies in the Americas, in Europe, and in the Oriental countries. Special emphasis will be placed on implications of educational developments abroad as they relate to education in the United States.

274. Education in the Social Order. (3) S. (Not given this year.) Lloyd

The school as a social institution, with special emphasis upon its relation to social, economic, and political change. The effect of these changes upon educational practice and philosophy of education.

277. An Introduction to the Field of Social Work. (2) A. Ballif

(See Sociology 244.)

280. Fundamentals of Guidance. (3) W. Romney

A basic course for students seeking comprehensive information in the history, principles, and practices of guidance.

281. History of Philosophy. (3) A. Swensen

A history of the rise and development of philosophy in the Greek, Graeco-Roman, medieval, renaissance, eighteenth century, and modern periods. Stress is laid upon an appreciation of the outstanding philosophers of the various schools of thought.

282. Occupations. (3) A.S. Clark

Occupational information for guidance purposes. This course deals with the task of gathering, classifying, and using occupational information. Job descriptions and job analyses are also treated. The whole is integrated with good counseling techniques.

284. 285, 286. Seminar in Philosophy of Education and Guidance. (2-2-2) Time to be arranged. Staff

287. Character Education. (3) A. (Not given this year.) Lloyd

A study of various methods and techniques in character education that are now in use in the United States and an evaluation of the educational philosophy upon which each of these rests.

288. Administration of Student Personnel Service. (3) S. Lloyd

Attention is given to the administrative organization of personnel service. This course includes a study of health service, admissions, employment, curricular and extra-curricular activities, cumulative records, and techniques of the interview.

290. Social Ethics. (3) A. Lloyd

A treatment of ethical theory as applied to modern social, industrial, and professional problems. Consideration is given to Puritan ethics, individualism, Christian ethics, international good will, and world peace.

291. Research in Philosophy of Education. Any quarter. Lloyd and Staff

A maximum of two credit hours for research and reports in the philosophy of education. Reading may cover materials in which regular courses are not offered. Registration by consent of the instructor.

293. Philosophy of Education. (3) W. Lloyd

This course is designed primarily to assist students in the achievement of a basic philosophy of education, growing out of the integrated experiences of university life.

300. The Master's Thesis in Philosophy of Education and Guidance. (4 to 6) Any quarter. Prerequisite: Education 218 or equivalent. Lloyd, Law, Swensen, Romney, Clark

Credit of four to six hours is given upon the completion of an acceptable thesis that embodies the results of independent search upon a significant problem in some field of concentration. Students should read the section of the catalogue that contains the requirements of the graduate school.

Secondary Education

Professor Woolf, Chairman

I. BASIC SKILLS AND GENERAL COMPETENCE

Students in the Department of Secondary Education are expected to be proficient in the basic skills and to demonstrate competence in their general and specialized preparation. Therefore, to register in the college they must have the approval of the Committee on Selective Admission to the College of Education.

In addition, before he begins student-teaching, the student must secure the approval of the Committee on Admission to Secondary Student Teaching, which sets standards for entrance into that work. (Secondary Education 184a, 184b.) **Applications to the committee are to be filed, on forms provided, three months before the student-teaching begins.** The following areas of infor-

mation are brought under review: (1) Detailed list of courses and grade-point averages in the fields in which teaching is to be done. (2) Similar listing of courses taken in professional education, with grade-point average. (3) Results of teacher examinations required by the Secondary Department and other information from official sources.

For the purpose of guidance it is desirable that prospective students confer with the Chairman of the Department as early as possible. This should be at least as early as the Sophomore year.

Students in this department are urged to fill part of the biological science group, required for graduation, with a course in general psychology.

II. SPECIAL ACADEMIC PREPARATION

(Usual amount required 69 hours; minimum 60 hours)

A. COMPOSITE MAJORS:

Experience has shown that teachers on the secondary level are more qualified to serve the needs of the average high school when they are students of several related subjects rather than when they are trained in a single subject. (See recommendation of State Department of Education.)

It is recommended that as early as the beginning of the Sophomore year prospective secondary school teachers select one of the groups of related subjects as their chosen field of instruction.

The composite major takes the place of the traditional major and minor. It must consist of not less than sixty hours of credit distributed in two or more related fields (preferably three) with not less than eighteen hours in any one subject.

For guidance in selecting and completing a composite major, students may consult with the Dean of the College of Education and with the Chairman of the Department of Secondary Education whose responsibility it is, under cooperative advisement with the academic departments, to administer the composite majors which cut across two or more departments. Secondary teachers may use the approved composite teaching majors of sixty or more hours as degree majors in the College of Education along with the professional major.

Developing Composite Majors

A composite major in three related fields will consist of (1) a dominant subject in which a minimum of 24 hours will be required; (2) a related subject with a minimum of 18 hours required; (3) another related subject with a minimum of 18 hours required.

A composite major developed in two related fields will consist of (1) a dominant subject in which the course work will amount to a minimum of 36-45 hours; (2) a related subject in which the course work will amount to a minimum of 24 hours.

In the following lists of courses the twenty-four hours of credit in any given subject may be selected either as the dominant subject material in a composite of three fields, or as the related subject material in a composite of two fields.

Many combinations may be selected from the fields described below. Early consultation with the Chairman of the Department of Secondary Education is recommended to assure students that their preparation is directed toward the greatest needs of the schools to be served.

COMPOSITE MAJORS IN AGRICULTURE

Agronomy:

24 hour list: Agronomy 20, 21, 22, 25, 41, 155, 173, 192.
37 hour list: Agronomy 20, 21, 22, 25, 41, 150, 155, 157, 159, 173, 192, 196.
18 hour list: Agronomy 20, 22, 25, 41, 155, 192.

Animal Husbandry:

24 hour list: Animal Husbandry 7, 10, 11, 15, 32, and one course from 21, 154, 150, 155, 156, 108.
18 hour list: Animal Husbandry 1, 7, 15, 32, and two courses from 21, 154, 150, 155, 156, 108.
36 hour list: Animal Husbandry 1, 7, 10, 11, 15, 32, and twelve to fourteen hours from 21, 154, 150, 155, 156, 108.

Horticulture:

18 hour list: Horticulture 157, 158, 159; Landscape 1; choice of an additional six to eight hours.

COMPOSITE MAJORS IN BIOLOGICAL SCIENCE

(Several combinations are possible. See descriptions above.)

Botany:

24 hour list: Botany 1, 2, 3, and ten additional hours selected from Botany 10, 140, 150; and Bacteriology 21, 22.
18 hour list: Botany 1, 2, 3, 140.
45 hour list: Botany 1, 3, 10; Bacteriology 21, 22; Botany 101, 102, 103, 106, 140, 150, 155, 180, 181, 183, 184.

Psychology:

24 hour list: Psychology 11; one or two courses of 54, 155, 156; Psychology 129, 122, 123, 130, 171, 190.
18 hour list: Psychology 11; one or two of 54, 155, 156; Psychology 129, 171, 190.
36 hour list: Psychology 11; one or two of 54, 155, 156; Psychology 129, 120, 130, 171, 173, 122, 123, 125, 190.

Zoology:

24 hour list: Zoology 11; 18 or 29; 28, 45, 46; Entomolofy 30.
18 hour list: Zoology 11, 18 or 29, 28, 45, and Entomology 30.
36 hour list: Zoology 11, 12; 18 or 29; 30, 45, 157, 158, 159, 175, 182, 183.

COMPOSITE MAJORS IN BUSINESS AND SECRETARIAL PRACTICE

(Several combinations are possible. See descriptions above.)

Accounting and Business Administration:

24 hour list: Accounting 1, 2, 150; ten hours selected after consultation, from accounting 151, 152, 154, 160, 162, 163, 174, 175, and Marketing 157.
18 hour list: Accounting 1, 2, 150; Other courses selected after consultation, from Accounting 154, 160, 162, 163, 174, 175, and other courses.
36 hour list: Accounting 1, 2, 150, 151, 152, 191, 192; Finance and Banking 151, 152 or 157, 158, 159.

Economics:

24 hour list: Economics 1, 2, 14; Economics 161 or Sociology 180; Economics 194 or 199 and one other course in Economics.
18 hour list: Economics 1, 2, 14; Economics 161 or Sociology 180, and one other course in economics.

36 hour list: Economics 1, 2, 14, 161, 167, 174; 194 or 199; Education 218; other courses in economics to make a total of 36 hours.

Secretarial Practice:

24 hour list: Secretarial Practice 14, 15 and 151, or equivalent; 24, or equivalent; 154, 26, 31 and 198. Electives from Secretarial Practice 160, 163 or 178.
18 hour list: Secretarial Practice 14, 15 and 151, or equivalent; 24, or equivalent, 154, 31 and 198.
36 hour list: Secretarial Practice 14, 15, 151, 155, 24, 154, 26, 31 and 198. Elective from Secretarial Practice 160, 163, or 178. At least 36 hours are required in this Department.

Composite Major in Home Economics

24 hour list: Household Administration 80, 161, 164, 165, 166, 171, 172, 173; 181, 182, or their equivalents.
18 hour list: Clothing and Textiles 1, 2, 55, 170, 173, 180, or their equivalents.
18 hour list: Foods and Nutrition 10, 11, 12, 50, 52, 150 or their equivalents.

COMPOSITE MAJORS IN LANGUAGE ARTS

It is considered desirable that a minimum of 24 hours of selected English courses be in all combinations of the composite majors in language arts. The recommended combinations are: English 45 hours, Speech 24 hours; Speech 45 hours, English 24 hours; English 24 hours, Journalism 36 hours; English 45 hours, Journalism 24 hours.

If students in English and Speech desire to take a few hours in Journalism to aid them in editing the school paper or year book, the following courses are suggested: Journalism 61, 161, 197.

English:

24 hour list: English 1, 2, 3, 21, 22, 141, 142; and two courses from 71, 72, 73.
45 hour list: English 1, 2, 3, 21, 22, 141, 142, 143; 82 or 182; four courses from 171, 172, 173, 174, 175; either 197 or 198.

Speech:

24 hour list: Speech 1, 2, 4, 20, 41, 52, 160, 184. Speech 180 recommended.
45 hour list: Speech 1, 4, 20, 21, 41, 100, 103, 160, 161, 180, 184, 186, elective 5 hours.

Journalism:

24 hour list: Journalism 61, 62, 105, 106, 111, 179.
36 hour list: Journalism 61, 62, 105, 106, 111, 135, 179, 185, 197; five hours from 26, 27, 164, 165, 166, 188.

COMPOSITE MAJORS IN MATHEMATICS AND PHYSICAL SCIENCES

(Several combinations are possible. See description above.)

Chemistry:

24 hour list: Chemistry 8, 14, 15, 16, 21, 22.
18 hour list: Chemistry 14, 15, 16, 21, 22.
45 hour list: Chemistry 14, 15, 16, 21, 22, 151, 152, 153, 191, 192, 193; 111, 112, 113, or 161, 162, or 181, 182.

Geology and Geography:

24 hour list: Geology 1, 12, 117, 118, 119; one of Geography 20, 21, 23; one of Geography 150, 155, 160, 165.
18 hour list: Geology 1, 12, 117, 118; one of Geography 20, 21, 23; one of Geography 150, 155, 160, 165.
45 hour list: Geology 1, 12, 55, 107, 117, 118, 119, 130, 132, 171; one of Geography 20, 21, 23; one of Geography 150, 155, 160, 165.

Mathematics:

24 hour list: Mathematics 11, 12, 13, 101, 102. (Mathematics 1 and 3 not accepted.)
18 hour list: Mathematics 11, 12, 13, 101. (Mathematics 1 and
36 hour list: Mathematics 11, 12, 13, 101, 102, 103, 111, 112, 113, or 121, 122. (Mathematics 1 and 3 not accepted.)

Physics:

24 hour list: Physics 41, 42, 43, 121, 122.
18 hour list: Physics 26, 41, 42, 43.
36 hour list: Physics 41, 42, 43, 121, 122 and twelve additional hours selected from upper division courses.

COMPOSITE MAJORS IN MUSIC

Instrumental Music Dominant Area:

Major Instrument—5 quarters of private study.....10 hrs.
Minor Instrument Workshop—2 years.
String majors study one year of Woodwind (preferably Clarinet) and one year of Brass (preferably cornet.)
Brass Majors study one year of Woodwind (preferably Clarinet) and one year of Strings (preferably violon.)
Woodwind Majors study one year of Brass (preferably cornet) and one year of strings (preferably violin.)
(During the first year, one day per week is devoted to the study of percussion instruments.)
(During the second year, one day per week is devoted to group vocal training.) Instrumental Music 41, 43, 141, 146..... 5 hrs.
Instrumental Ensemble—2 years..... 6 hrs.
Band Conducting and Related Problems (Instrumental Music 198) 2 hrs.
Orchestra Conducting and Related Problems (Instrumental Music 199) 2 hrs.
Keyboard Work in Music 21-23..... 3 hrs.
Keyboard Work in Music 121-123..... 3 hrs.

Total.....31 hrs.

Vocal Ensemble (Chorus, Glee Club, Opera, Madrigal Chorus) 3 hrs.
Group Vocal in Minor Instrument Workshop (Instrumental Music 41-43) 1 hr.
Solfeggio Taught in Music 21-23..... 6 hrs.
Solfeggio Taught in Music 121-123..... 6 hrs.
Choral Conducting and Related Problems (Vocal Music 197).. 2 hrs.

Total.....18 hrs.

Harmony—First Year—Taught in Music 21-23..... 6 hrs.
Harmony—Second Year—Taught in Music 121-123..... 6 hrs.
History of Music—1 Year (Theory of Music 184-186)..... 9 hrs.

Total.....21 hrs.

Instrumental Music Dominant Area Piano:

Major Instrument—5 quarters of private study.....10 hrs.
Minor Instrument Workshop—3 years work on instru-

ment from each of the 3 families (W.W., Strings, Brass) Instrumental Music 41-43; 141-143 8 hrs.
Band Conducting and Related Problems (Instrumental Music 198) 2 hrs.
Orchestra Conducting and Related Problems (Instrumental Music 199) 2 hrs.
Keyboard Work in Music 21-23 3 hrs.
Keyboard Work in Music 121-123 3 hrs.

Total 28 hrs.

Vocal Ensemble (Chorus, Glee Club, Opera, Madrigal Chorus) 3 hrs.
Group Vocal in Minor Instrument Workshop (Instrumental Music 41-43) 1 hr.
Solfeggio taught in Music 21-23 6 hrs.
Solfeggio taught in Music 121-123 6 hrs.
Choral Conducting and Related Problems (Vocal Music 197) 2 hrs.

Total 18 hrs.

Harmony—first year—taught in Music 21-23 6 hrs.
Harmony—second year—taught in Music 121-123 6 hrs.
Advanced Harmony at the Keyboard—one quarter (Theory of Music 181) 2 hrs.
History of Music—one year (Theory of Music 184, 185, 186) 9 hrs.

Total 23 hrs.

Vocal Music Dominant Area:

Vocal Lessons—5 quarters of private study 10 hrs.
Vocal Ensemble—2 years (Chorus, Glee Club, Opera, or Madrigal Chorus) 6 hrs.
Choral Conducting and Related Problems (Vocal Music 197) 2 hrs.
Solfeggio taught in Music 21-23 6 hrs.
Solfeggio taught in Music 121-123 6 hrs.

Total 30 hrs.

Advanced private piano—2 quarters 4 hrs.
Minor Instrument Workshop—2 years on instruments from two of the three families (Wood Winds, Strings, Brass.) Vocal majors will not be expected to attend the group vocal classes which are a part of the second year of the Minor Instrument Workshop. They will therefore not receive six hours credit for the

two years work in the class, rather (Instrumental Music 41-43; 141-143) 5 hrs.
Band Conducting and Related Problems (Instrumental Music 198) 2 hrs.
Orchestra Conducting and Related Problems (Instrumental Music 199) 2 hrs.
Keyboard work in Music 21-23 3 hrs.
Keyboard work in Music 121-123 3 hrs.

Total 19 hrs.

Harmony—first year—taught in Music 21-23 6 hrs.
Harmony—second year—taught in Music 121-123 6 hrs.
History of Music—one year (Theory of Music 184-186) .. 9 hrs.

Total 21 hrs.

Music Theory Dominant Area:

Harmony—first year—taught in Music 21-23 6 hrs.
Harmony—second year—taught in Music 121-123 6 hrs.
History of Music—one year (Theory of Music 184-186) .. 9 hrs.
Advanced Harmony at the Keyboard—2 quarters (Theory of Music 181-182) 4 hrs.
Counterpoint—one year (Theory of Music 211-213) 9 hrs.

Total 34 hrs.

Minor Instrument Workshop—3 years; 1 year violin, 1 year clarinet, 1 year cornet (Inst. Music 41-43; 141-143) 8 hrs.
Band Conducting and Related Problems (Inst. Music 198) 2 hrs.
Orchestra Conducting and Related Problems (Inst. Music 199) 2 hrs.
Keyboard work in Music 21-23 3 hrs.
Keyboard work in Music 121-123 3 hrs.

Total 18 hrs.

Vocal Ensemble (Chorus, Glee Club, Opera, Madrigal Chorus) 3 hrs.
Group vocal in Minor Instrument Workshop (Inst. Music 41-43) 1 hr.
Solfeggio taught in Music 21-23 6 hrs.
Solfeggio taught in Music 121-123 6 hrs.
Choral Conducting and Related Problems (Vocal Music 197) 2 hrs.

Total 18 hrs.

COMPOSITE MAJOR IN PHYSICAL EDUCATION, RECREATION, AND HEALTH

Physical Education and Recreation:

44 hour list:
For Men and Women, Physical Education 51, 52, 53, 54, 55, 56, 130, 133, 140, 141, 142, and Recreation 131.
For Women: Physical Education 80, 81, 82, 83, 84, 85, 87, 88, 89.
For Men: Physical Education 101, 102, 103.

Health:

24 hour list:
Health 1, 21, 22, 45, 50, 125, 158, 160, 195.

COMPOSITE MAJORS IN SOCIAL SCIENCE

(Several combinations are possible. See description above.)

The major emphasis of social science in the secondary schools is history. Therefore no combination of courses which omits history will be acceptable. Eighteen hours of selected courses in history are a minimum requirement; twenty-four hours minimum of selected courses in history are recommended.

History:

24 hour list: History 10, 11, 12, 166; 175 or 176; 177 or 178.
18 hour list: History 11, 12, 166; 175 or 176; 177 or 178.
45 hour list: History 10, 11, 12, 122, 123, 140, 141; 150 and 151 or 160 and 161; 166, 170; 175 or 176; 177 or 178.

Economics:

24 hour list: Economics 1, 2, 14; 161 or Sociology 180; Economics 94 or 99; one other course in economics.
18 hour list: Economics 1, 2, 14; 161 or Sociology 180; one other course in economics.
36 hour list: Economics 1, 2, 14, 161, 167, 174; 194 or Sociology 180; Education 218; other courses in economics to make a total of 36 hours.

Geography:

24 hour list: Geography 20, 21, 23; and two of Geography 150, 155, 160, 165; elective, ten hours.
18 hour list: Geography 20, 21, 23; elective, ten hours.
39 hour list: Geography 20, 21, 23, 75, 130, 145, 150, 155; elective, fifteen hours.

Political Science:

24 hour list: Political Science 10, 11, 12, 100, 170, 135.
18 hour list: Political Science 10, 11, 12, 170.
45 hour list: Political Science 10, 11, 12, 100, 104, 105, 106, 130, 135, 145, 160, 170, 180.

Sociology:

24 hour list: Sociology 11, 12; 102 or 104; 182 or 186; eight hours from 124, 128, 136, 152, 156, 160, 170, 172, 176.
18 hour list: Sociology 11, 12; eight hours from Sociology 124, 128, 136, 152, 156, 160, 170, 172, 176.
40 hour list: Sociology 11, 12, 102, 104, 182, 186; 190 or 192; sixteen hours from Sociology 124, 128, 136, 152, 156, 160, 170. 172, 176.

B. TEACHING MAJOR AND TEACHING MINOR

Students who do not elect a composite major may select a teaching major and a teaching minor in any of the academic departments. The teaching major shall consist of thirty-six to forty-five quarter hours of a subject taught in Utah high schools and approved by the College of Education. At least half of the academic major shall be upper division work. The teaching minor shall consist of not less than twenty-four quarter hours in a subject taught in the secondary schools of Utah, one-third of which must be upper division work.

In a few departments where composite majors have not been developed there are listed single-subject teaching majors and teaching minors.

Art:

Teaching Major 40 hours: Art 10, 13, 14, 21, 22, 27, 28, 33, 34, 39, 41, 50, 56, 62, 63, 104, 105, 107, 108, 174.
Teaching Minor 26 hours: Art 10, 13, 14, 21, 22, 27, 28, 33, 34, 50, 62, 63.

Languages:

Teaching Major: 30 hours upper division work. Two units of entrance credits or lower division courses 1, 2, 3, will enable a student to begin upper division classes.

First year 1, 2, 3
Second year 101, 102, 103
Third year 111, 112, 113

Fourth year—To make upper division courses reach a total of 30 hours, selection may be taken from 121, 122, 123, 131, 132, 133. Consultation with the department for equivalent courses.

Teaching Minor: There are no teaching minors in foreign languages acceptable to the department of Secondary Education, unless enough study and experience to make a success of teaching are shown.

III. PROFESSIONAL PREPARATION IN SECONDARY EDUCATION

The professional courses to be taken for the Teacher's Certificate for Secondary Schools should include the following: Education 151 or 193; Education 153, 158, 163; Secondary Education 181, 184a, 184b; Secondary Education 194. A total of thirty-three hours is required.

160. Improved Methods in Reading for Teachers of Secondary Schools. (3) Hart, Bauer, and Staff

A course designed to acquaint teachers with methods and literature in the field of reading, and to permit them to become acquainted with a reading program in progress.

179. Development of Secondary Schools and Current Theories and Practices. (1 to 3) A.W.S. Woolf

Research, independent readings and individual conferences will be planned to permit students to become familiar with important literature in the field of Secondary Education not covered in regular courses. Registration upon consultation with instructor.

180. Secondary School Subjects. (1 to 3) A.W.S.
Woolf, Clarke, and B.Y.U. High School staff

Independent readings, reports, individual conferences designed to acquaint the student with literature pertaining to improved methods and content in teaching secondary school subjects not covered in regular courses. Registration upon consultation with instructor.

181. Secondary Methods and Curriculum. (3) A.W.S. Prerequisite: Educational Phychology. Woolf, Clark

This course is designed as an introduction to student teaching and should therefore before such teaching begins. Emphasis is given to general methods and procedures applicable to teaching in secondary schools. The nature of the secondary curriculum will be presented. Directed observation

of secondary schools will be made. Students will be given experience in unit planning in their particular fields.

184a. Secondary Student Teaching. (4) A.W.S. Consultation. Prerequisites: (1) Satisfactory achievement in basic skills and professional knowledge as determined by tests required by the department; (2) approximately one-half of the requirements in Education including Educational Psychology 163 and Secondary Education 181; (3) endorsement by the head of the field of study forming the dominant academic interest; (4) an academic major acceptable to the College of Education; (5) committee approval of written application made at least one quarter prior to date of beginning teaching. Teaching periods to be arranged.

Woolf, Clarke, andstaff

This is a course in student-teaching under supervision. One hour daily throughout the quarter of participation in classroom activities and responsible class instruction will be required. In addition, study of special methods for teaching in subject matter areas will be required by the supervising teachers through classes on Tuesdays and Thursdays at 4:00 p.m. Art, Biology, English, Foreign Languages, Home Economics, Mathematics, Industrial Arts, Music, Secretarial Practice, Speech, Health, Physical Education, Physical Sciences, Social Science are areas considered.

184b. Secondary Student Teaching. (8) A.W.S. Prerequisites: Secondary Education 184a.

Woolf, Clarke, and staff, and cooperating schools

This is a continuation of Secondary Education 184a. It is designed to place the student-teacher in a secondary school for a full quarter on a half-day basis. Close contact with faculty and students, participation on committees and in extra-curricular activities, and much responsible teaching are expected.

189. Juvenile Sociology. (2) A.W.S. Boyle

This course is designed to help the student to understand himself—especially to have insight into his personality problems—also to understand all with whom he may be associated. The end sought is to direct the student's thinking and feeling and doing along adequate and appropriate channels so that there will be a continuous growth of wholesome personality.

191. The High School Curriculum. (3) Time to be arranged.

Woolf

The curriculum in the modern high school with current trends. Principles and practices in the development and operation of the curriculum.

194. Growth, Development and Problems of High School Boys and Girls. (3) A.W.S. Merrill

Consideration will be given to the growth and development of youth and the adjustments to be sought in the light of present-day problems and situations. Actual cases will be studied in the secondary schools.

195. Supervision of Education. (3) S. Law

A study of the problems in school supervision in the light of present-day practice and theory in this field. (Accompanied by laboratory work.)

197. The Senior High School. (3) Time to be arranged Woolf

The development of the high school, its purposes, problems and practices.

199. The Junior High School. (3) Time to be arranged. Woolf

The background of the junior high school and the educational needs it was designed to fill. Its present status, its problems, and its opportunities. The articulation of the junior high school with other school units.

Graduate Courses

240-50. Research in Secondary Education. (1 to 3) A.W.S. Woolf

Maximum of three credit hours is allowed for the completion of an acceptable paper that embodies the results of independent research upon some problem in secondary education. Registration by consent of the instructor.

260. Improved Methods in Reading for Teachers of Secondary Schools. (3) Hart, Bauer and staff

279. Development of Secondary Schools and Current Theories and Practices. (1 to 3) A.W.S. Woolf

Independent readings and individual conferences will be planned to permit graduate students to become familiar with important literature in the field of Secondary Education. Registration upon consultation with instructor.

280. Secondary School Subjects. (1 to 3) A.W.S.
Woolf, Clarke and staff

Independent readings, reports, individual conferences designed to acquaint the student with literature pertaining to improved methods and materials in teaching secondary school subjects. Intended to include material not covered in regular courses. Registration upon consultation with instructor.

284. Advanced Student Teaching for Secondary Schools. (2 to 8) A.W.S. Woolf, Clark and staff

Designed for experienced teachers and administrators who desire additional study and laboratory work in particular areas of the secondary school program. Application for this work should be made in advance and registration only upon the approval of committee and the chairman of the department.

289. Juvenile Sociology. (2) A.W.S. Boyle

291. The High School Curriculum. (3) Time to be arranged. Woolf

294. Growth, Development and Problems of High School Boys and Girls. (3) A.W.S. Merrill

295. Supervision of Education. (3) S. Law

296. The Work of the Secondary School Principal. (3) S. Woolf

Administering a single school. Organization, schedules, staff selection and placement, rating, reports, supply administration, pupil guidance, and public relations. For men and women preparing for administrative opportunities. See also Education Administration 196.

297. The Senior High School. (3) Time to be arranged. Woolf

299. The Junior High School. (3) Time to be arranged. Woolf

300. The Master's Thesis. (4 to 6) Any quarter. Woolf, Law, Clark

Credit of four to six hours is given upon the completion of an acceptable thesis that embodies the results of independent research upon a significant problem in some field of concentration.

Training Schools

Howard S. McDonald, President

Reuben D. Law, Dean of the College of Education.

G. L. Woolf, Chairman of Secondary Education Department and Supervisor of Student Teaching.

LeRoy Bishop, Chairman of Elementary Education Department and Supervisor of Student Teaching.

SECONDARY SCHOOL FACULTY

A. John Clarke, Principal and Supervisor of Student Teaching.

SUPERVISORY TEACHERS

Edith B. Bauer, English
Robert Brailsford, Science.
Julia A. Caine, Social Science.
Herbert Christensen, Social Science.
Owen G. Dixon, Physical Education, Coach.
LaVell Gamett, Shop Work and Mechanical Drawing.
Mary Deane Gilbert, Physical Education.
Anna B. Hart, English
C. Lavoir Jensen, Mathematics.
George L. Lewis, Speech.
Farrell D. Madsen, Music.
Winston Mercer, English.
Wayne Sorenson, Social Science and Science.
LeRoy Sparks, Business, Office Practice.
Ruth Wilson, Home Economics.
James Ira Young, Social Science.
Richard Gunn, Art.
Fred Webb, Music.
Rex Olsen, Physical Education.

ELEMENTARY SCHOOL FACULTY

Hermese Peterson, Principal and Supervisor of Student Teaching.
Jay W. McAllister, Supervisor of Music.

SUPERVISORY TEACHERS

Dorothy N. Candland
Flora Fisher
May C. Hammond
Elda B. Jackson
Georgia Maeser
Josephine M. Strong
Mary Johnson
Maxine Murdock

Organization and Purpose

The Training Schools are organized on a kindergarten 6-3-3 basis; viz., an elementary division, including kindergarten, a junior and senior high school.

Students enrolled in the training schools have all the advantages of the University plant such as the use of the libraries, gymnasiums, laboratories, shops, athletic fields, auditorium, etc. These enlarged opportunities, with the advantages of expert teachers, make the training schools especially attractive and advantageous to students of elementary and high school age.

Provisions are made for transfers from grade to grade and from one division to another so that pupils may enter the kindergarten and remain in continuous attendance until they are graduated from one of the colleges of the University. The educational welfare of the students is safeguarded by an enriched curriculum. In addition. provisions are made for moral and religious training every year the student is in attendance.

ELEMENTARY TRAINING SCHOOL

The elementary training school covers the range from the kindergarten through the first six grades.

The enrollment in this department is limited to the number of pupils who can be adequately cared for in each grade. Priority of application is the basis upon which students are enrolled.

A staff of especially well-qualified instructors, with the facilities offered by the University and the assistance given by student teachers and special instructors provides wide range of experience for the children. Much attention is given to individual needs and interests and to the development of special abilities. The aim is to exhibit as completely as possible a pattern of the modern progressive school in action.

This school serves as a laboratory in modern school practice for the training of student teachers in the field of elementary education, and for the testing of current educational theory.

JUNIOR HIGH SCHOOL

Pupils completing the first six grades are regularly promoted to the **Junior High School.** Here departmentalization begins, permitting of variation in courses and a wide range of contact with expert instructors. Entrance to the Senior High School is based upon the completion of the courses outlined for the Junior High School. A maximum of four units plus one year of Theology credit will be allowed for ninth year work to count toward filling group requirements and toward graduation from the Senior High School for those pupils coming from schools which do not maintain a Junior High School.

SENIOR HIGH SCHOOL

Students completing the three years of work prescribed for the Junior High School are admitted to the Senior High School.

Students graduating from the Senior High School will be expected to complete 16 units in three years. Equal credit will be given in all subjects for equal amounts of time spent in the classroom. A course followed for thirty-six weeks with classes meeting five times a week will give one unit of credit. All the constants prescribed must be included in the program of each student.

Aims and Regulations

It is the purpose of the high school to develop in its students, habits of regularity, punctuality, and industry. Willing and serious application to the tasks at hand is considered of fundamental importance in meeting life situations. It is the aim of the school to have students work vigorously during the day in order to develop the above qualities and to minimize home preparation of lessons. To achieve these aims. the following regulations apply to those enrolled:

(1) Students will be held accountable to the school at all times from the beginning of the school day schedule until the end. A student is expected to register for either regular class work or study at each period of the day. Permission should be obtained fom the teachers and the principal in case students are required to leave the school at any time during the day. Special permission should be obtained prior to the departure.

(2) All students are required to register for Theology. Students who fail continually to do satisfactory work in their courses in any department will not be permitted to remain in classes.

(3) Students are required to take the regulation courses in physical education during residence at this school. Students are released from this requirement only upon statement of physical disability signed by a physician. Satisfactory grades in physical education courses are required for graduation.

High School Activities

Under the direction of the faculty and the student body organization, an adequate program of athletic and social activities is provided for the junior and senior high school students.

All high school groups have regular social gatherings and recreational activities under faculty supervision and guidance. They have activities in athletics, debating and public speaking, and essay writing. Each year, the school produces a dramatic or a musical program. The school is a member of the State High School Debating Association and the Utah High School Activities Association. In addition to these opportunities for extra-curricular activities, a regular High School Student Body organization is maintained with the various activities that naturally are sponsored by such organizations. The high school students have also the advantage of participation in the regular activities of the University student body.

Credit

Those classes which meet five days each week for a full fifty minutes, and which continue for the full school year of thirty-six weeks of actual class work carry one unit of credit. In some cases students may transfer nine hours college credit for one unit of high school credit.

Students who register late or who discontinue before the end of the school year or miss a portion of their work during the school year can receive no higher grade than "Incomplete" until the required work of the course is completed. An incomplete grade carries no credit. Such a grade may be removed within one year and credit received.

SECONDARY TRAINING SCHOOL CURRICULA

Junior High School

Core Curricula

It is the philosophy of the junior high school that certain areas of work should be organized around student needs into a core program. By having students remain with one teacher for a two-hour period, it is thought that greater strides may be made in guiding the pupil in solving his personal problems, in integrating his school activities with those which he carries on in the community, and in developing a wholesome personal outlook; therefore, core curricula have been set up in the seventh, eighth, and ninth grades.

7th Grade Subjects

Constants: Religion, Physical Education, English I, Social Science, Mathematics I, Music, Reading, Homemaking, Study Periods, and Assembly. Core curriculum.

Electives: Art, Orchestra, Band.

8th Grade Subjects

Constants: Religion, Physical Education, English II, General Science, History, Mathematics II, Music, Reading, Study Periods, and Assembly. Core curriculum.

Electives: Art, Orchestra, Band.

9th Grade Subjects

Constants: Art, Religion, Physical Education, English, General Science, Mathematics, Community Civics and Assembly. Core curriculum.

Electives: Chorus, Homemaking, Orchestra, Shop, Theory of Music, and Band.

Senior High School

Students desiring to graduate from the B. Y. U. High School and to qualify for college entrance at the same time, are required to register for the following courses:

Grade X. English B, Theology B, Physical Education.

Grade XI. English C*, Theology C, Physical Education.
Grade XII. U. S. History, Theology D, Physical Education.

Some time during the senior high school years the following couses must be taken: Algebra or Geometry; Problems of Democracy or World History; Physiology and Eugenics; Physics or Chemistry or a second year of Mathematics or Basic Skills.

Special courses may be planned for those high school students who do not intend to be officially graduated from high school or who do not intend to go to college.

Senior High School Courses

Subject	Days		Year Taken	Credit
Art	5	Elective	10 to 12	1 unit
Business				
Shorthand	5	Elective	11 to 12	1 unit
Typewriting, Elem.	5	Elective	10 to 12	1 unit
Typewriting, Adv.	5	Elective	10 to 12	1 unit
Bookkeeping	5	Elective	10 to 12	1 unit
Language Arts				
Composition, Literature and Grammar	5	Constant	11	1 unit
Grammar and Literature	5	Constant	10	1 unit
Literature	5	Elective	10 to 12	1 unit
Home Making				
Home Making	5	Elective	10 to 12	1 unit
Home Nursing	5	Constant	10 to 12	1 unit
Home Living	5	Elective	10 to 12	1 unit
Language				
French A or B	5	Elective	10 to 12	1 unit
Latin A	5	Elective	10 to 12	1 unit
German A or B	5	Elective	10 to 12	1 unit

* Under special conditions approved by the principal, English D may be substituted for English C.

Subject	Days		Year Taken	Credit
Mathematics				
Algebra A*	5	Elective	10 to 12	1 unit
Geometry*	5	Elective	10 to 12	1 unit
Arithmetic (Bus.)	5	Elective	10 to 12	1 unit
Trigonometry	5	Elective	10 to 12	.5 unit
Solid Geometry	5	Elective	10 to 12	.5 unit
Basic Skills				
Music				
Chorus	2	Elective	10 to 12	.4 unit
Orchestra	3	Elective	10 to 12	.6 unit
Theory of Music	3	Elective	10 to 12	.6 unit
Band				
Physical Education				
Physical Ed. (Girls)		Constant	10 to 12	.4 unit
Phys. Ed. (Boys)		Constant	10 to 12	.4 unit
Religious Education				
Theology B	2	Constant	10	.4 unit
Theology C	2	Constant	11	.4 unit
Theology D	2	Constant	12	.4 unit
Assembly	1	Constant	10 to 12	.2 unit
Science				
Physics*	5	Elective	11 to 12	1 unit
Personal Hygiene (1 sem.)	5	Constant	11 to 12	.5 unit
Eugenics (1 sem.)	5	Constant	11 to 12	.5 unit
Chemistry*	5	Elective	11 to 12	1 unit
Botany (1 sem.)	5	Elective	10 to 12	.5 unit
Zoology (1 sem.)	5	Elective	10 to 12	.5 unit
Biology	5	Elective	10 to 12	1 unit
Shop				
Drafting A or B	5	Elective	10 to 12	1 unit
Woodworking A or B	5	Elective	10 to 12	1 unit
Social Science				
U. S. History	5	Constant	10 to 12	1 unit
World History*	5	Elective	10 to 12	1 unit
Problems in American Democracy*	5	Constant	10 to 12	1 unit
Geography	5	Elective	10 to 12	1 unit
Dramatic Art	5	Elective	10 to 12	1 unit
Public Speaking	5	Elective	10 to 12	1 unit

*These subjects are only partially elective as either one or the other in each group must be taken.

College of Fine Arts

Gerrit de Jong, Jr., Dean

The policy of the University has always provided for a liberal patronage of the fine arts. A constantly growing desire to offer greater opportunities to those whose inclinations and talents lead them into the field, in 1925, resulted in the organization of the College of Fine Arts.

With an exceptionally well prepared faculty, who have received the benefits of extended study and travel in recognized art centers, and adequate physical equipment in each department, this college is able to do work of high scholastic standing.

Any course offered in this college, leading to a degree, is the culture equivalent to other college courses, differing from them mainly in respect to the emphasis placed upon the study of the fine arts.

At present the following departments, fully organized, are included in the College of Fine Arts: Art (Drawing, Painting, Modeling, Design, History and Appreciation); Music (Theory, Instrumental, Vocal); and Speech (Public Speaking, Dramatic Art, Play Production, Speech Correction, Radio.) Majors, may be selected from the work offered in these departments; minors from these, or from other departments in the university which offer allied work. Students graduated from the College of Fine Arts receive the degree of Bachelor of Arts or Bachelor of Science.

DEPARTMENTS OF INSTRUCTION

Art

Professors Larsen, Jenson; Assistant Professors Birrell, Andrus; Mr. Taylor, Mr. Turner.

Students majoring in Art are required to take courses 10, 13, 14, 21, 22, 23, 27, 28, 29, 33, 34, 35, 39, 40, 41, 63, 64, 110, 104, 105, 107, 108.

Lower Division Courses

1. Introduction to Art. (2) A.W.S. Turner

This course is recommended for every one who desires a better understanding of and a greater appreciation for painting, sculpture, architecture, and other graphic arts.

10. Theory and Practice of Design. (2) A. Larsen, Turner; W., Turner; S., Birrell

Study of the fundamental principles of art affecting the use of form, color, and texture in structural forms and decoration.

12. Fashion Illustration. (2) S. Prerequisites: Art 10, 21, 22. Birrell

13. Home Design. (2) W. Larsen, Turner

A study of the home in relation to the family needs. Art problems in connection with home planning.

14. Interior Design. (2) S. Larsen, Turner

A study of art principles as applied to the decoration and furnishing of the home.

21. Graphic Representation. (2) A. Larsen, Andrus, Turner

Freehand drawing in various media. Perspective emphasized.

22. Graphic Representation. (2) W. Andrus

Life Drawing.

23. Graphic Representation. (2) S. Larsen, Turner

Freehand drawing. Composition in various media.

27. Oil Painting. (2) A. Larsen, Turner

An introduction to the use of oil colors as a medium of expression.

28. Oil Painting. (2) W. Larsen, Turner

Various oil painting techniques emphasized.

29. Oil Painting. (2) S. Larsen, Turner

The landscape emphasized.

33. Water Color Painting. (2) A. Birrell

Survey and application of the various techniques of water color painting.

34. Water Color Painting. (2) W. Birrell

Emphasized on mass, line, value, and texture as related to still-life composition.

35. Water Color Painting. (2) S. Birrell

Emphasis on color as related to outdoor sketching.

39. Commercial Art. (2) A.W.S. Jenson

Line lettering.

40. Commercial Art. (2) A.W.S. Jenson
Brush work.

41. Comercial Art. (2) A.W.S. Prerequisites: Art 39, 40. Jenson, Andrus
Simple layout.

50. Wood Cutting. (2) A. Andrus
Wood cutting and related relief printing processes.

51. Etching and Litheography. (2) W. Andrus

52. Silk Screen Printing. (2) S Andrus

56. Modeling. (1) A. Birrell
Modeling from the model.

57. Casting. (1) W. Prerequisite: Art 56. Birrell

62. Batik & Textile Design. (2) W. Birrell
Wood block, linoleum block, weaving, stencil, textile painting and Batik used as a basis for creative design. The history of design is considered.

63. Crafts. (2) S. Birrell
Leather, wood, raffia, reed, and other media used as basis for creative design.

64. Pottery. (1) A. Even years only. Birrell
Pottery and molding in clay.

68, 69, 70. Art for Elementary School Teachers. (3-3-3) All three courses given A.W.S. Jenson
Deals with the art needs of children, the psychological procedures in teaching art and mastering the techniques and esential subject matter in the field of art.

86, 87, 88. Studio Art. (2-2-2) A.W.S. Staff

Upper Division Courses

101. Introduction to Art. (2) A.W.S. Turner
A general course for all students dealing with various types of art expression.

104. Art History and Appreciation. (2) A. Birrell
Prehistoric structure, graphic art and decoration. Interpretation and classification of masterpieces of architecture, sculpture, graphic arts, ornament and painting to the end of Roman Art.

105. Art History and Appreciation. (2) W. Birrell

Early Christian and Rennaissance architecture, sculpture, graphic arts, ornament and painting. Emphasis upon schools of painting beginning with the Primitive Florentine down to the beginning of the nineteenth century. Illustrated lectures.

107. Contemporary Art. (2) W. Larsen

A study of the rise and progress of contemporary art in Europe and America, beginning with the 19th century.

108. American Art. (2) S. Larsen

A study of sculpture, painting, architecture, and industrial arts in America.

110. Advanced Design. (2) A. Prerequisite: Art 10. Birrell

Special relationships stressed as applicable to commercial, industrial, and modern design.

111. Mural Design. (2 to 4) W. Prerequisites: Art 10, 22, 110. Birrell

The figure in design based on special mural treatment.

112. Fashion Illustation. (2) S. Fashion drawing and painting. Birrell

113, 114. Home Design and Interior Design. (2) W. S. Larsen

115. 116, 117. Interior Design. (3-3-3) A.W.S. Prerequisites: Art 10, 13, 14. Taylor

History of Interior Design. A study of period furnishings. A practical study of manufacture, design, installation, and care of all media and materials used in interior design and home furnishings. Practical problems in interior decoration.

121, 122, 123. Interpretative Drawing. (2-2-2) A.W.S. Larsen

127. Oil Painting. (2 to 4) A. Prerequisites: Art 21, 22, 23. Larsen

Emphasis upon landscape composition.

128. Oil Painting. (2 to 4) W. Prerequisites: Art 21, 22, 23. Larsen

129. Oil Painting. (2 to 4) S. Prerequisites: Art 21, 22, 23. Larsen

Outdoor sketching and landscape composition.

133. Water Color Painting. (2 to 4) A. Prerequisites: Art 21, 22, 23, 33, 34, 35. Birrell

Landscape and still-life composition.

134. Water Color Painting. (2 to 4) W. Prerequisites: Art 21, 22, 23, 33, 34, 35. Birrell

Still-life and figure composition.

135. Water Color Painting. (2 to 4) S. Prerequisites: Art 21, 22, 23, 33, 34, 35. Birrell

Outdoor sketching.

139, 140, 141. Commercial Art. (2 to 4, 2 to 4, 2 to 4) All courses given A.W.S. Prerequisites: Art 39, 40, 41. Jenson

Poster designing, layout, and lettering.

150, 151, 152. Process Illustration. (2-2-2) A.W.S. Prerequisites for 151, 152: Art 21, 22, 23. Andrus

A study of various print techniques.

156. Clay Modeling. (2) A. Prerequisite: Art 22. Birrell

157. Plaster Casting. (1) W. Prerequisite: Art 156. Birrell

162. Textile Design. (2) W. Birrell

Advanced work in textile design.

163. Crafts. (2) S. Birrell

164. Ceramics. (2) A. Even years only. Birrell

Advanced work in pottery and ceramics.

168, 169, 170. Art for Elementary School Teachers. (3-3-3) All three courses given A.W.S. Jenson

Deals with the psychological procedures in teaching art and stresses the techniques necessary in actual art work.

174, 175, 176. Portrait and Figure Drawing. (2-2-2) A.W.S. Andrus

180, 181, 182. Mural Painting. (2 to 4, 2 to 4, 2 to 4) A.W.S. Three laboratory periods per week. Andrus

186, 187, 188. Studio Art. (1 to 4, 1 to 4, 1 to 4) A.W.S. Staff

Advanced drawing and painting.

Graduate Courses

201, 202, 203. Composition. (2-2-2) A.W.S. Larsen
A study of the means employed by artists to achieve beauty.

207. Contemporary Art. (2) W. Larsen
Impressionism, and Modernist experiments in Europe and in America.

208. American Art. (2) S. Larsen
Contemporary American artists and their work.

210, 211, 212. Advanced Design. (2 to 4, 2 to 4, 2 to 4) A.W.S. Birrell

215, 216, 217. Interior Design. (3-3-3) A.W.S. Taylor

221, 222, 223. Interpretative Drawing and Painting. (2-2-2) A.W.S. Larsen
Composition study in various media.

227, 228,229. Pictorial Composition. (2 to 5, (2 to 5, 2 to 5) A.W.S. Larsen

233, 234, 235. Water Color Painting. (2 to 4, 2 to 4, 2 to 4) A.W.S. Birrell
Development of individual expression.

239, 240, 241. Commercial Art. (2-2-2) A.W.S. Jenson
Graduate work in which individual work is stressed.

250, 251, 252. Process Illustration. (2 to 4, 2 to 4, 2 to 4) A.W.S. Andrus

274, 275, 276. Portrait and Figure Painting. (2 to 4, 2 to 4, 2 to 4) A.W.S. Andrus

280, 281, 282. Mural Painting. (2 to 5, 2 to 5, 2 to 5) A.W.S. Andrus

286, 287, 288. Studio Art. (1 to 5, 1 to 5, 1 to 5) A.W.S. Larsen

290, 291, 292. Color. (2-2-2) A.W.S. Larsen, Andrus

299. Seminar

300. Research.

Music

Professors Halliday, Jepperson-Madsen, Madsen, deJong; Associate Professor Sardoni; Assistant Professors Hanson, Summerhays, Earl; Mr. Buggert, Mr. Keeler, Mr. McAllister, Mr. Wakefield, Mr. Nelson, Mr. Fitzroy, Mrs. Packard, Miss Sandberg, Mr. Hunt.

General Requirements

A candidate for the baccalaureate degree with a major in music must complete the following courses:

Harmony 2 years;
History of Music, 1 year;
Philosophy and Aesthetics of Music, 4 hours;
Conducting, 2 hours;
Instrumental or Vocal Ensemble, 6 hours;
Instruction in Major Instrument or Voice, 12 hours; and
(For those who contemplate teaching)
Instruction in Minor Instrument, 6 hours.

The Department of Music offers curricula with the following three specialties: A degree can be taken with a major in instrumental music, a major in vocal music, or a major in music theory.

INSTRUMENTAL MUSIC

First Year

	A	W	S	Total
Religion	2	2	2	6
Physical Education	1		1	2
English	3	3	3	9
Foreign Language	5	5	5	15
Piano	2	2	2	6
Band or Orchestra	1	1	1	3
Physics 2		3		3
Major Instrument	2	2	2	6
	16	18	16	50

Second Year

	A	W	S	Total
Religion	2	2	2	6
Hygiene	1			1
Physical Education		1		1
Foreign Language	5	5		10
Music 21-23	5	5	5	15
Major Instrument	2	2	2	6
Band and/or Orchestra	1-2	1-2	1-2	3-6
Instrumental Music 41, 42, 43	1	1	1	3
Electives (group requirements, etc.)			6	6
	17-18	17-18	17-18	51-54

Third Year

Church Administration 157 (Hymnology)	2	2	2	6
Music 121-123	5	5	5	15
Theory of Music 174-176	2	2	2	6
Instrumental Music 141, 142, 143	1	1	1	3
Vocal Ensemble (Chorus, Opera, Glee, or Madrigal Chorus)	1	1	1	3
Band and/or Orchestra	1-2	1-2	1-2	3-6
Electives (group requirements, major instruments, education, etc.)	5	5	5	15
	17-18	17-18	17-18	51-54

Fourth Year

Religion 161, 162, 163 (Sacred Music)	2	2	2	6
Theory of Music 184-186	3	3	3	9
Theory of Music 193		2		2
Vocal Music 197	2			2
Instrumental Music 198, 199		2	2	4
Band and/or Orchestra	1-2	1-2	1-2	3-4
Elective (group requirements, education, major instruments, etc.)	9	7	9	25
	17-18	17-18	17-18	51-54

Those who do not expect to be recommended as a teacher of instrumental music in the public schools, may substitute more work on the major instrument for the Minor Instrument Workshop requirement (Instrumental Music 41, 42, 43, 141, 142, 143).

Those who are graduated with a major in instrumental music must have a minimum of 20 minutes of recital appearance as soloist or ensemble player.

Students preparing to teach piano should also take Instrumental Music 190 or 190-P.

VOCAL MUSIC

Vocal music majors follow the same general course as instrumental music majors, but substitute chorus (three hours each year) or Vocal Music 75-80 or 175-180 (Opera Workshop) for Band and Orchestra work. They also take Linguistics 42 (Practical Phonetics).

It is recommended that vocal music majors fill their foreign language requirement by taking at least 30 hours, 15 in each of two languages. Students who do not intend to teach any instrumental music in the public schools are not required to study minor instruments, but should have at least 2 years of voice and 2 years of piano when they are graduated.

Those who major in vocal music must have a minimum of 20 minutes of recital appearance as solo or ensemble singers when they are graduated.

Recommended Curriculum for the Major in

MUSIC THEORY

A major in Theory of Music may be taken only on recommendation of the Chairman of the Department. A student must have a thorough practical knowledge of the piano to begin as a major in Music Theory.

First Year

	A	W	S	Total
Religion	2	2	2	6
Physical Education	1	1	1	3
English	3	3	3	9
Foreign Language	5	5	5	15
Music 21-23	5	5	5	15
Band, Orchestra, Chorus, or Ensemble	1	1	1	3
	17	17	17	51

Second Year

Church Administration 157 (Hymnology)	2	2	2	6
Hygiene			1	1
Foreign Language	5	5		10
Music 121-123	5	5	5	15
Instrumental Music 41, 42, 43	1	1	1	3
Band, Orchestra, Chorus, or Ensemble	1	1	1	3
Physics 2		3		3
Groups	4		8	12
	18	17	18	53

Third Year

Church Administration 161, 162, 163 (Sacred Music)	2	2	2	6
Theory of Music 181-183	2	2	2	6
Theory of Music 184-186	3	3	3	9
Instrumental Music 141, 142, 143	1	1	1	3
Vocal Ensemble (Chorus, Glee Club, Opera, or Madrigal Chorus)	1	1	1	3
Electives (Groups requirements, Education, Advanced Piano, etc.)	9	9	9	27
	18	18	18	54

Fourth Year

Religion	2	2	2	6
Theory of Music 174-176	2	2	2	6
Theory of Music 211-213	3	3	3	9
Vocal Music 197	2			2
Instrumental Music 144, 145, 146	1	1	1	3
Instrumental Music 198, 199		2	2	4
Electives (Group requirements, Education, Advanced Piano, etc.)	8	8	8	24
	18	18	18	54

A minor in the Department of Music must include: Piano, 6 hours or the equivalent; Music 3, 21, 22, 23; and ensemble, 3 hours.

Private courses are indicated by "-p."

GENERAL MUSIC

Lower Division Courses

1. A Survey Course in Music. (3) A.W.S. Earl

An elementary, non-technical course designed and recommended for all non-music students. This course gives an orientation in the field of Music, with discussions on rhythm, melody, harmony, form, musical instruments, important composers and some of their works.

2. Fundamentals of Music. (2) A.W.S. Summerhays

An introductory course in music fundamentals, especially designed for those who have not had sufficient practical experience in music to meet the prerequisites of other Music courses and for public school teachers.

3. A Survey of Music Literature. (3) A.W.S. Madsen

A non-technical course in music appreciation, especially designed for those who do not major in music. Extensive use is made of recorded music.

21, 22, 23. First Year Harmony, Solfeggio, and Keyboard Work. (5-5-5) A.W.S. Prerequisite; one year of private piano, or its equivalent. One hour laboratory each day in the Autumn and Winter Quarters, and two days a week in the Spring Quarter are required.

Halliday, Sardoni, Keeler, Wakefield, et al

For music majors and minors. Notation; ecclesiastical modes; seven clefs; intervals; triads; seventh chords; modulation; part writing; sight singing; rhythmic reading; harmonic, melodic, and rhythmic dictation; musical terminology; keyboard work.

40. Group Piano Instruction. (2) A.W.S. Hanson

Class instruction for beginners in keyboard technique and fundamentals of music.

Upper Division Courses

121, 122, 123. Second Year Harmony, Solfeggio, and Keyboard Work. (5-5-5) A.W.S. Prerequisite: Music 23 or its equivalent. Two laboratory periods per week are required.

Sardoni, Earl, et.al

Seventh Chords; altered and mixed chords; modulation; part writing; piano styles; Bach chorals, form and analysis; sight singing, dictation, and keyboard harmony.

THEORY OF MUSIC

Upper Division Courses

174, 175. Philosophy of Music. (2-2) A.W. Prerequisite: Music 23 or its equivalent. Madsen

A technical course principally for music majors and minors. The philosophies of music and musicians, the elements of music, musical structure, composition and values.

175. Aesthetics of Music. (2) S. deJong

A continuation of Theory of Music 174, 175. Theoretical and practical criteria of aesthetic values in music applied to composition, performance, and listening to music.

181, 182, 183. Advanced Harmony at the Keyboard. (2-2-2) A.W.S. Prerequisite: Music 123. Keeler

Harmonization of figured and unfigured basses and other voices, cadences, sequences, transpositions, modulations and improvisations at the keyboard.

184, 185, 186. History of Music. (3-3-3) A.W.S. Prerequisite: Music 123. Halliday, Wakefield

Alien musical systems, ancient and modern. Medieval and modern music.

161. Sacred Music Before 1650. (2) A. (See Church Administration 161.) Keeler

Gregorian chant, mass, motet, oratorio, the early passions.

162. Sacred Music from 1650 to 1750. (2) W. (See Church Administration 162.) Keeler

The Cantata, Chorale, and Passion.

163. Sacred Music from 1750 to the Present. (2) S. (See Church Administration 163.) Keeler

Requiem mass, anthem, hymn, including L.D.S. hymns.

190. Public School Methods. (3) A.W.S. Prerequisites: Music 2 or 21, or the equivalent. McAllister

Special technique of instruction and materials for the grades; class demonstrations and supervised teaching.

193. Instrumentation (2) W. Hunt

A practical short course for high school teachers and supervisors in arranging for band and orchestra.

GRADUATE COURSES

211, 212, 213. Counterpoint. (3-3-3) A.W.S. Prerequisite: Music 123. Earl

Modal counterpoint based on the style of Palestrina.

214, 215, 216. Counterpoint and Canon. (3-3-3) A.W.S. Prerequisite: Theory of Music 213. Staff

Strict and free counterpoint, double counterpoint, imitation. The motet, mass, madrigal.

221, 222, 223. Harmony (3-3-3) A.W.S. Prerequisite: Theory of Music 123. Halliday, Earl

Modern Harmony. Building of advanced technique.

231, 232, 233. Instrumentation. (3-3-3) A.W.S. Prerequisite: Music 123. Sardoni

Arranging for chamber music combinations, string and symphony orchestra.

261, 262, 263. Fugue. (3-3-3) A.W.S. Prerequisite: Theory of Music 216 and 223. Staff

Analysis of fugues, such as those found in the Well-Tempered Clavier. Construction of fugue subjects and fugues.

271, 272, 273. Composition. (3-3-3) A.W.S. Prerequisite. Theory of Music 263. Staff

284, 285, 286. Music Literature. (3-3-3) A.W.S. Prerequisites: Theory of Music 186, 213, 233, and Instrumental Music 199. Earl

A thorough study of representative musical scores from different periods and for different mediums.

300. Research for Master's Thesis. Credit to be arranged.

INSTRUMENTAL MUSIC

Lower Division Courses

1, 2, 3, 4, 5, 6. Varsity Band. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of directors.
Halliday, Hunt

11, 12, 13, 14, 15, 16. String, Woodwind and Brass Ensemble. (1-1-1-1-1-1) A.W.S. Three periods per week.
Sardoni, Buggert, Sandberg, Hunt

25, 26, 27, 28, 29, 30. Chamber Orchestra. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of Director.
Sardoni

31, 32, 33, 34, 35, 36. Private Instruction on Standard Instruments. (2-2-2-2-2-2) A.W.S. Ten lessons per quarter
Strings Violin, Viola, Cello, String Bass. Sardoni, Buggert
Woodwinds: Flute, Oboe, Clarinet, Bassoon, Saxophone. Halliday, Buggert, Sandberg, Jensen
Brass: Trumpet, Cornet, French Horn, Trombone, Baritone, Tuba. Halliday, Buggert, Hunt
Percussion: Drums and Tympani. Staff
Piano: Nelson, Hanson, Fitzroy, Keeler, Wakefield
Organ. deJong, Keeler

40. Group Piano Instruction. (2) A.W.S. Hanson

Class instruction for beginners in keyboard technique and fundamentals of music.

41, 42, 43. Minor Instrument Workshop. (1-1-1) A.W.S. Five periods per week. Staff

A laboratory in which students learn to play an instrument in each family (String, W.W., Brass) other than the family represented by their major instrument. Students in the course receive one hour instruction per week during the year in group vocal, at which time they study the basic principles of solo and ensemble singing.

51, 52, 53, 54, 55, 56. Concert Band. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of the director. Halliday

75. 76, 77, 78, 79, 80. Symphony Orchestra. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of the director. Sardoni

Upper Division Courses

101, 102, 103, 104, 105, 106. Varsity Band. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of directors. Halliday, Hunt

111, 112, 113, 114, 115, 116. String, Woodwind, and Brass Ensemble. (1-1-1-1-1-1) A.W.S. Three periods per week. Sardoni, Buggert, Sandberg, Hunt

125, 126, 127, 128, 129, 130. Chamber Orchestra. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of directors. Sardoni

131, 132, 133, 134, 135, 136-p. Private Instruction on Standard Instruments. (2-2-2-2-2-2) A.W.S. Ten lessons per quarter. (See Instrumental music 31-p.)

141, 142, 143, 144, 145, 146. Minor Instrument Workshop. (1-1-1-1-1-1) A.W.S. Staff

(See Instrumental Music 41, 42, 43.) All students in this course are given instruction in percussion instruments one hour per week during the Autumn and Winter quarters and one hour per week in the Spring quarter is devoted to the application of their knowledge of the violin, cornet, and clarinet to the other members of the string, brass, and woodwind families.

151, 152, 153, 154, 155, 156. Concert Band. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of director. Halliday

175, 176, 177, 178, 179, 180. Symphony Orchestra. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of director. Sardoni

187. Organ Problems. (2) S. Admission by consent of instructor. Prerequisite: Advanced standing as an organ student. Keeler

Organ registration for solo and accompaniment. Problems incident to organ accompaniment playing; other related problems.

190. Piano Pedagogy. (2) W. Methods, materials and problems of piano teaching in the higher grades. Hanson

190-p. Piano Pedagogy. (2) S. Methods, materials, and problems of teaching piano. Nelson

198. Band Conducting and Related Problems. (2) W. Prerequisites: Music 123 and Theory of Music 186. Halliday

Baton technique, Band organization and administration, materials and methods for band and individual band instruments.

199. Orchestral Conducting and Related Problems. (2) S. Prerequisites: Music 123 and Theory of Music 186. Sardoni

Baton technique. Bowing, editing of parts, score reading, materials and methods.

Graduate Courses

231-,232-,233-,234-,235-,236-p. (2-2-2-2-2-2) A.W.S. Private instruction on Standard Instruments. (For staff, see Instrumental music 31-p). Advanced instruction on the standard instruments

298, 299. Conducting. (2-2) W.S. See Instrumental Music 198, 199. Prerequisites: Theory of Music 213 and 233.
Halliday and Sardoni

VOCAL MUSIC

Lower Division Courses

1, 2, 3, 4, 5, 6. Ladies' and Male Glee Clubs. (1-1-1-1-1-1) A.W.S. Five Periods per week. This organization also provides participation in Mixed Chorus. Admission by consent of directors. Jepperson-Madsen, Madsen

31-, 32-, 33-, 34-, 35-, 36-p. Private Instruction in Voice. (2-2-2-2-2-2) A.W.S. Ten lessons per quarter.
Halliday, Jepperson-Madsen, Madsen, Summerhays, Earl, Packard, McAllister

51, 52, 53, 54, 55, 56. Concert Chorus. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of director. Madsen

60. Phonetics. (3) A.W. (See Department of Modern and Classical Languages, Humanities and General Courses 60.) Staff

75, 76, 77, 78, 79, 80. Opera Workshop. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of director. Earl, et. al.

Operatic styles and traditions. A performance of one opera will be given during each quarter. Particularly for those whose interests lead them into both vocal and dramatic work.

Upper Division Courses

101, 102, 103, 104, 105, 106. Ladies' and Male Glee Clubs. (1-1-1-1-1-1) A.W.S. Five periods per week. Participation in Mixed Chorus is also provided. Admission by consent of directors. Jepperson-Madsen, Madsen

131-, 132-, 133-, 134-, 135-, 136-p. Private Instruction in Voice. (2-2-2-2-2-2) A.W.S. Ten lessons per quarter.
Jepperson-Madsen, Madsen, Halliday, Summerhays, Packard, McAllister, Earl

151, 152, 153, 154, 155, 156. Concert Chorus. (1-1-1-1-1-1) A.W.S. Five periods per week. Admission by consent of director. Madsen

175, 176, 177, 178, 179, 180. Opera Workshop. (1-1-1-1-1-1) A.W.S. Five periods per week. (See Vocal Music 75.) Admission by consent of director. Earl, et. al

191, 192, 193. Madrigal Chorus. (1-1-1) A.W.S. Three periods per week. A group of trained singers to sing madrigals, motets, cantatas, etc. Admission by consent of director. Summerhays

197. Choral Conducting and Related Problems. (2) A. Prerequisites: Music 123, and Religion 169-T. Madsen

Baton technique, vocal problem and methods, literature and materials.

Graduate Courses

231-, 232-, 233-, 234-, 235-, 236-p. Vocal Culture. (2-2-2-2-2-2)

A.W.S. Ten lessons per quarter.
Jepperson-Madsen, Madsen, Halliday, Summerhays, Packard, McAllister, Earl

297. Conducting. (2) A. (See Vocal Music 197.) Prerequisites: Theory of Music 213 and 233. Madsen

Speech

Professors Pardoe, Morley, Cummings; Assistant Professors Smith, Billings, Hanson, Clinger, Gledhill, K. B. Pardoe; Mr. Wight, Mr. Christensen.

Speech majors must have two years in a foreign language. Those who have had two years of foreign language study in an accredited high school take at least the second year in a foreign language in college.

Students may elect to specialize in one of five divisions:

Dramatic Art. Speech 1, 2, 4, 20, 21, 22, 26, 41, 60, 61, 120, 121, 128p, 160, 161, 163, 180, 184 or 186; English 82, 182, 197.

Public Speaking. Speech 1, 2, 3, 4, 5, 20, 41, 100, 101, 102, 104p, 160, 162, 180, 186.

Play Production. Speech 1, 2, 4, 20, 21, 22, 23, 26, 41, 44, 60, 61, 125, 126, 127, 160, 161, 162, 163, 164, 165, 170, 180.

Speech Correction and Science. 1, 2, 4, 5, 6p, 20, 21, 41, 101, 180, 184, 185, 186, 189. The following courses in Psychology are required: 11 (5), 76 (3), 168 (3), 170 (3), 172 (3).

Radio Broadcasting. Speech 1, 4, 20, 21, 41, 42, 43, 44, 45, 46, 51, 52, 60, 141, 142, 145, 147, 160, 162.

Requirements for a Major in General Speech. 1, 2, 4, 20, 21, 41, 60, 101, 105p, 114 p, 160, 161, 163, 180, 184, 186.

It is advisable for all speech students to register for Physics 2, Psychology 11; and Art Appreciation.

Requirements for a Minor in Speech. Speech 1, 2, 4, 20, 22, 41, 160, 180.

Lower Division Courses

N.B. All speech classes are limited to 25 members. Assignments are made by Speech Department at registration.

1. Fundamentals of Speech. (5) A.W.S.
Pardoe, Clinger, Gledhill, K. Pardoe, Kest

A beginning course in the study and expression of thought to develop self-confidence in all phases of ordinary speech situations. This course should be elected by students in other departments who are interested in developing personal competency in presenting their own ideas.

1. Open Forum. (3) W.S. Clinger, Gledhill

3. Analysis. (3) S. Clinger, Gledhill

4. Voice and Diction. (2) A.W.S.

An intensive study of voice improvement. Especially designated for prospective teachers and voice majors.

5p Speech Clinic. (1) Students may enter at any time of the year. Time to be arranged. Morley

Corrective treatment of stuttering, stammering, lisping, oral inaccuracy, poor voice and other forms of speech and voice disorders. A thorough diagnosis will be made and treatment organized in accordance with individual needs.

6p Speech Coaching. (1) A.W.S.
Pardoe, Morley, Clinger, Gledhill

Personal attention to individual needs beyond classroom practice.

20. Basic Voice for Radio and Drama. (4) W.S. Required of all majors. Pardoe, Clinger, K. Pardoe

21. **Pantomine and Elements of Acting.** (4) Required of all majors. Pardoe, Clinger, K. Pardoe

22. **Interpretive Literature.** (3) A. Clinger, Gledhill, K. Pardoe

23. **Dialogue Scene Presentation.** (3) W. Clinger, K. Pardoe

25. **Monologue for Public Readings.** (3) S. K. Pardoe

26. **Makeup.** (2) A.W.S. Clinger

41. **Radio Broadcasting.** (3) A. Required for all radio classes. Record fee, $2.00 Pardoe
Elementary problems of microphone techniques.

42. **Radio Script Writing.** (3) W. Laboratory Fee $2.00 Pardoe

43. **Radio Production.** (3) S. Laboratory Fee $2.00 Pardoe

44. **Radio Sound Effect.** (2) A. Laboratory Fee $2.00 Staff

45. **Radio Studio Organization.** (2) W. Staff

46. **Radio Recording and Playback.** (2) S. Laboratory Fee $2.00 Staff

47. **Radio Telephone License Preview.** (3) A. Staff

48. **Radio Telephone License, Second Class.** (3) W. Staff

49. **Radio Telephone License, First Class.** (3) S. Staff

51. **News Writing.** (3) A.S. (See Journalism 61.) Wight, Christensen

52. **Radio Announcing.** (3) W.S. Pardoe and Staff

60. **Practical Phonetics.** (3) A.W. required of all students majoring in Speech. Gledhill
Designed to give a better understanding of English and foreign diction.

61, 62. **Dialects for Stage and Study.** (3-3) S. Prerequisite: Speech 60 Pardoe
Each course given in alternate years.

63. **Vocabulary Building.** (3) S. Gledhill

Upper Division Courses

N.B. All upper division students and transfer students from other colleges should see Speech Department chairman before registering for speech classes.

100. Advanced Speech Composition. (3) A. Clinger
Recommended for those who have had extended speech experience and wish further improvement.

101. Argument and Debate. (3) W. Prerequisite English 1, 2, 3 and Speech 1, 2. Clinger
Current problems in debate presentation.

102. History of Public Speaking. (3) S. Morley
A comparative study of world oratory. (Given in even years.)

103. Advanced Debate. (1 or 2) W.
For such members of the debating squad as can qualify for this course, subject to approval of the Speech Department and the Debate Council. Students must register for course if they expect to get credit for debating.

104p. Public Speaking. (1) One hour credit for each recitation per week. Clinger

105p. Voice and Speech Improvement. (1) A.W.S. One credit hour per quarter for each recitation per week.
Pardoe, Clinger

106. American Oratory and Public Addresses. (3) S. (Not given in 1949.) Morley

111. Theory of Semantics. (3) A. Prerequisites. Consent of instructor. (See Modern and Classical Languages 111.)
Cummings

120. Impersonation. (4) A. Only those who have built a proper voice foundation and can qualify in Speech 1, 20, 21, 22, 60 are eligible. The Mask Club is the laboratory for all performances. K. Pardoe

121. Program Techniques. (2) W. K. Pardoe
Repertoire for schools, M.I.A., and public programs.

122. History of Dramatic Arts. (2) S. K Pardoe
A survey of dramatists and actors.

123. Advanced Acting. (3) W. S. Pardoe, K. Pardoe
For experienced students in advanced roles.

124-p. Dramatic Technique. (2) A.W.S. Pardoe, K. Pardoe
Individual instruction for readers of plays. Time to be arranged.

125-6-7. History of Dramatic Production. (3-3-3) A.W.S. Clinger, Gledhill

From earliest Egyptian to modern times.

128p. Reading Techniques. (1) A.W.S. Pardoe, K. Pardoe, Clinger, Gledhill

A course to assist in program coaching. Time to be arranged.

141. Radio News Writing. (3) S. Smith

The processing of news copy for broadcast purposes. (See Journalism 141.)

142. Radio Music Appreciation. (2) A.W. Hansen

A study of mood and background music.

143. Advanced Radio Production. (3) W. Record fee: $2.00 Pardoe

Production for College Varieties, IBS, and commercial broadcasting stations.

144. Radio in Education. (3) S.

Radio which is applicable to service and use in the schools.

145. Advanced Radio Announcing. (3 to 5) Pardoe, Staff

For those who have had radio experience.

146. Radio Programming. (3) A. Record fee: $2.00. Pardoe, Staff

With especial aids from commercial stations.

147. Press and Radio Law (2) S. Prerequisite: Junior standing. V. Christensen

(See Journalism 107.)

160. Play Production. (3) A.W.S. Daily. For advanced students only. Consult Speech chairman before registration. Clinger, Gledhill, Pardoe

161. Stage Craft. (3) S. Clinger, Gledhill, K. Pardoe

College and workshop productions laboratories.

162. Acting and Technique Resume. (3) S. Required of Speech major seniors. Pardoe

163. Technique of Playwriting. (3) A. Pardoe, Staff

164. Advanced Play Production. (3) S. Prerequisite: 160, 161. Clinger, Gledhill

165. Historic Costume and Costume Design. (3) W. Billings

(See Clothing and Textiles 65.)

171. Advanced Stage Craft. (3) S. Clinger, Gledhill
Construction of scenery sets, etc.

172. Advanced Interpretation. (3) S. Pardoe, K. Pardoe
Given in alternate years.

180. Methods of Teaching Speech. (2) S. Required of all who expect to teach. Clinger, Staff

184. Speech Correction. (3) A.W. Required of all who expect to teach. Morley, Staff
A study of the physiology, physics, and neurology of normal speech.

185. Clinical Methods in Speech Correction. (3) A.W.S. Morley, Staff

186. Psychology of Speech. (3) S. Morley, Staff
A study and training in the methods of diagnosis, treatment, and the use of equipment in speech correction.

187. Major Speech Disorders. (3) S. Morley, Staff
An intensive study of the causes, diagnosis, and treatment of the more complex types of speech defects.

Graduate Courses

200. Speech Composition. (3) A. Morley, Clinger
A graduate course for experienced speakers of teachers.

201. Argument and Debate. (3) W. Morley, Clinger
Registrants will assist in debate coaching.

203. History of Public Speaking. (3) S. Morley, Clinger
The power of speech in shaping world destiny is the basis of the course.

221. Advanced Acting and Impersonation. (3) Time to be arranged. Pardoe, K. Pardoe

223. Dialogue and Scene Presentation. (3) W. Clinger, K. Pardoe
For those who have taught dramatic art or have had professional training.

225, 226, 227. History of Dramatic Production. (2-2-2) A.W.S. Clinger, Gledhill
Power and use of drama throughout the ages.

241, 242, 243. Radio Broadcasting. (3-3-3) A.W.S. Pardoe

For experienced radio broadcasters and writers.

252. **Radio Announcing.** (3) A. Pardoe, Staff
Clinical assistance from commercial stations.

261, 262. **Dialects for Stage and Study.** (3) S. Pardoe
Practical study of the more common stage and radio dialects.

263, 264. **Play Production.** (3-3) Clinger, Gledhill, K. Pardoe

265, 266. **Stage Craft.** (3) Clinger, Gledhill
Actual work shop practice.

267. **Technique of Playwriting.** (3) Pardoe
Classroom criticism and production of the better compositions.

280. **Methods of Teaching Speech.** (2) S. Clinger
Later techniques of psychological studies.

284. **Speech Correction.** (2) W. (Not given in 1948-49.) Morley

285. **Clinical Methods in Speech Correction.** (3) S. (Not given in 1948-49.) Morley

286. **Psychology of Speech.** (3) S. (Not given in 1948-49). Morley

287. **Major Speech Disorders.** (3) S. (Not given in 1948-49.) Morley

290. **Seminar in Public Speaking.** (2 to 4) Time to be arranged

291. **Seminar in Dramatic Art.** (2 to 4) Time to be arranged.

293. **Seminar in Radio.** (2 to 4) Time to be arranged.

294. **Seminar in Major Speech Disorders.** (2 to 4) Time to be arranged.

300. **Thesis.** (4 to 6) Time to be arranged.
Individual research upon a problem of importance to speech. Ability to conduct experiments necessary. Subject must be submitted for work at least three quarters.

DIVISION OF RELIGION

This Division is under the immediate direction of the President of the University.

Sidney B. Sperry, Director of Religious Instruction
Hugh B. Brown, Director of Religious Activities

It has always been the view of the Church of Jesus Christ of Latter-day Saints that in the training of its youth, there should be a proper integration of moral and religious values with secular knowledge. From its inception Brigham Young University, firm in the belief that no life is full and complete unless established upon a sound ethical and religious basis, has therefore offered courses in religion.

The Division of Religion administers all religious instruction and is responsible for the development and functioning of the program of religious activities which is sponsored by the University.

The following departments are at present organized: (1) Theology and Religious Philosophy; (2) Bible and Modern Scripture; (3) Church History; (4) LDS Church Organization and Administration. Through these departments every student in the University is given the opportunity to benefit from religious instruction.

Students in any college of the University who complete thirty-four quarter hours of religious instruction, which must include at least four hours in each of the above named departments of the Division of Religion will receive special recognition for such achievement at the time of their graduation.

The Master's degree is now offered in religion, and in the near future it is contemplated that the Doctorate will also be offered. Students interested in graduate work should write to the Division of Religion, Brigham Young University, for information.

Lower division students are given the privilege of electing any two of the following sequences during their freshman and sophomore years. (Returned missionaries may register for upper division religion courses exclusively, if they desire.)

Theology: 1, 2, 3. An introduction to Mormonism. (For non-Mormon students.)

Theology: 4, 5, 6. The Principles and Doctrines of Mormonism.

Scripture: 11, 12, 13. An introduction to the Book of Mormon and Its Teachings.

Scripture: 17, 18, 19. An Introduction to the Old Testament and Its Teachings.

Scripture: 23, 24, 25. An Introduction to the New Testament and Its Teachings.

Ch. History: 31, 32, 33. Latter-day Saint History and Doctrine.

Ch. Adm.: 41, 42, 43. Religion and Family Life. (Not given this year.)

DEPARTMENTS OF INSTRUCTION

Professors Sperry, Swensen, Eyring, Martin, Pardoe, Cummings, deJong, Hansen, F. Madsen, Hart, Law, Woolf, Morley, Rowe, Ballif, H. G. Clark, Holbrook, Brown, Bradford, Romney. Associate Professors Sudweeks, H. Lee, Farnsworth; Assistant Professors Nibley, Jakeman, Cheney, O. Smith, Valentine, J. R. Clark III, Rogers, Jacobs, Rice, H. Nicholes, J. Payne, Gledhill, Proctor; Mr. Salisbury, Mr. J. R. Clark, Mr. Crandall, Mr. J. G. Taylor, Mr. W. Lee, Mr. Canning, Miss Hill, Mr. Haggerty, Miss Croft, Mr. Jones, Mr. C. Larson, Mr. R. Smith.

THEOLOGY AND RELIGIOUS PHILOSOPHY

Professor Sperry, Acting Chairman

Lower Division Courses

1, 2, 3. An Introduction to Mormonism. (2-2-2) A.W.S. Brown

A course intended primarily for non-Mormon students who desire to become acquainted with the doctrines of the Church of Jesus Christ of Latter-day Saints.

4, 5, 6. The Principles and Doctrines of Mormonism. (2-2-2) A.W.S. Staff

A consideration of the basic principles and doctrines of the Church of Jesus Christ of Latter-day Saints.

Upper Division Courses

101, 102, 103. The Principles, Doctrines, and Philosophy of the Church of Jesus Christ of Latter-day Saints. (2-2-2) A.W.S. Staff

A course dealing with the distinctive doctrines and principles of the Restored Gospel of Jesus Christ. Recommended for students who have not had 4, 5, 6.

107. Mormonism and Contemporary Christian Religions. (2) A.W. Smoot

A comparison of the distinctive doctrines of the Latter-day Saints with those of other Christian faiths.

113, 114, 115. Moral Implications of the Religion of the Latter-day Saints. (2-2-2) A.W.S. Cummings

A consideration of conduct patterns suggested by Latter-day Saint concepts of personal immortality, eternal progression, and the eternity of the family union. Stress is placed upon the application of Mormon ideals in the attainment of full mental and physical health.

119. The Restored Gospel in the Modern World. (2) A.W.S. H. Nicholes

A study of the gospel of Jesus Christ presented in the restored scriptures of the Church of Jesus Christ of Latter-day Saints as a way of life effective and of value in this scientific age.

122. Man and His Relationship to the Universe. (2) A.W.S. Eyring

A history of science and its relation to religion, and a consideration of the religious and philosophical concepts which have emerged from science. (Not given this year.)

125. The Scientist Looks at Religion. (2) A.W.S. Hansen

A comparison of certain concepts of modern science.

131, 132, 133. Seminar. (Credit to be arranged.) A.W.S. Intended for seniors who wish to pursue special work in theology. Staff

BIBLE AND MODERN SCRIPTURE

Professor Sperry, Chairman

Lower Division Courses

11, 12, 13. An introduction to the Book of Mormon and Its Teachings. (2-2-2) A.W.S. Staff

A consideration of the origin, content, and teachings of the Book of Mormon.

17, 18, 19. An Introduction to the Old Testament and Its Teachings. (2-2-2) A.W.S. Staff

A course designed to emphasize the great teachings and outstanding personalities of the Old Testament.

23, 24, 25. An Introduction to the New Testament and Its Teachings. (2-2-2) A.W.S. Staff

A consideration of the life and teachings of Jesus and Paul and the historical situations which gave rise to the New Testament.

Upper Division Courses

101, 102, 103. The Old Testament. (2-2-2) A.W.S. Martin, Jakeman

This course deals with the structure and religious content of the Old Testament. An attempt is made to show that Israel's leaders had a vital religious message for the world of today. Recommended for students who have not had 17, 18, 19.

104. The Spirit of the Old Testament. (2) A. Sperry

An analysis of the literary problems, religion, and spirit which characterize the Old Testament.

105. The Prophets of Israel. (2) W. Sperry

A study of the leading prophetic figures of Israel, with an attempt to relate their teachings to the needs of our own day.

106. The Manners and Customs of the Hebrews. (2) S. Sperry

This course deals with the psychology and social backgrounds of the Hebrew people, their towns, cities, pastoral life, trades, professions, and family life.

113. The Life of Jesus. (2) A. Swensen

A study of the life and basic teachings of Jesus, His distinctive personality and character traits, and the social, economic, and religious problems of His day.

114. The Life and Letters of Paul. (2) W. Swensen

The life and teachings of the Apostle Paul, his Greek and Hebrew cultural backgrounds, his missionary labors and accomplishments.

115. The History and Interpretation of the New Testament. (2) S. Swensen

An advanced course dealing with the interpretations placed upon the New Testament from ancient to modern times, with emphasis on the literary and religious influences it exerts in modern society.

122, 123, 124. An Analysis of the Book of Mormon. (2-2-2) A.W.S. Sperry, Jakeman

An advanced course dealing with the problems and teachings of the Nephite sacred scripture. Recommended especially for students who have not had Religion 11, 12, 13.

131, 132. 133. The Doctrine and Covenants. (2-2-2) A.W.S. Sperry

A study of the origin and content of the Doctrine and Covenants.

138. The Pearl of Great Price. (2) A.W.S. Haggerty

A study of the origin and content of the Pearl of Great Price.

141, 142, 143. Seminar. (Credit to be arranged.) A.W.S. Staff

Intended for seniors or other advanced students who desire to pursue specialized problems related to the Bible and modern scripture. Admission by permission of instructors.

Biblical Languages

Courses with numbers below 200 carry undergraduate religious credit and fulfill the language requiements fo the A. B. degee.

151, 152, 153. Elementary Hebrew. (5-5-5) A.W.S. Sperry

A study of the elements of Hebrew grammar and the reading of several books of the Old Testament.

154, 155, 156. Intermediate Hebrew. (3-3-3) A.W.S. Sperry

Advanced grammar and readings from Genesis, Deuteronomy, Samuel, Kings, and certain of the Minor Prophets.

157, 158, 159. Advanced Hebrew. (2-2-2) A.W.S. Sperry

This course consists of Hebrew syntax and selected readings from the Prophets and the Hebrew Wisdom Literature.

161, 162, 163. Biblical Aramaic and the Targums. (2-2-2) A.W.S. Prerequisites: Hebrew 51, 52, 53. Sperry

201, 202, 203. Elementary Syriac. (3-3-3) A.W.S. Prerequisites: Hebrew 151, 152, 153. Sperry

Elements of grammar and readings from the Syriac New Testament.

204, 205, 206. Intermediate Syriac. (2-2-2) A.W.S. Sperry

Advanced grammar and readings from the Syriac Old and New Testaments and other religious literature.

211, 212, 213. Elementary Akkadian. (2-2-2) A.W.S. Prerequisite: Two years of Hebrew or consent of instructor. Sperry

221, 222, 223. Elementary Egyptian (Hieroglyphic). (2-2-2) A.W.S. Prerequisite: One year of a Semitic language or consent of instructor. Nibley, Sperry

Drill in the fundamentals of grammar. Elementary readings.

171, 172, 173. Elementary Greek. (3-3-3) A.W.S. Nibley

Intensive training in grammar. Readings from the New Testament.

174, 175, 176. Second Year Greek. (3-3-3) A.W.S. Prerequisite: One year of Greek. Nibley

Drill in grammar and composition. Readings from New Testament and Attic prose writers.

177, 178, 179. The Greek New Testament. (3-3-3) A.W.S. Prerequisite: One year of Greek. Nibley

An intensive study of the linguistic problems and traits of the Greek New Testament.

181, 182, 183. Greek Patristic Writers. (2 to 3 credit hours each quarter.) A.W.S. Prerequisite: Two years of Greek or consent of instructor. Nibley

Readings fom the literature of Christian writers of the first three centuries, with emphasis on the history of doctine.

187, 188, 189. Elementary Modern Greek. (3-3-3) A.W.S. Nibley

A course in modern Greek. A study of Greek as a living language with diversified graded readings and elementary grammar.

191, 192, 193. Intemediate Modern Greek. (3-3-3) A.W.S. Nibley

Advanced readings in modern Greek literature.

194, 195, 196. The Latin Fathers. (3-3-3) A.W.S. Nibley

Readings from Church writers before Gregory the Great, with emphasis on Church History and doctrine. Admission by consent of instuctor.

197, 198, 199. Medieval Latin. (2 to 3 credit hours each quarter.) A.W.S. Admission by consent of instructor. Nibley

ARCHAEOLOGY

The following courses carry credit in either Religion or Archaeology.

Lower Division Courses

51. Principles of Archaeology, I. (2) S.A. Recommended: Archaeology or History 10. Jakeman

The aims, methods, and principal results of modern archaeological research, as illustrated by the great discoveries of archaeology in the lands of the Bible and other parts of the Old World. Special attention will be given to the important bearing of archaeology on the Hebrew-Christian scriptures.

52. Principles of Archaeology, II. (2) S.P. Recommended: Archaeology 51 or Religion 51A. Jakeman

The aims, methods, and principal results of modern archaeological research, as illustrated by the great discoveries of archaeology in the New World. Special attention will be given to the fundamental problem of New World archaeology, namely the origin of the ancient civilizations of the New World, and the related problem of the origin of the American Indians, with consideration of the various theories or explanations of origin including that presented by the Book of Mormon.

Upper Division Courses

116. The Archaeology of the Old Testament. (2) W. Prerequisite: Archaeology 51 or Religion 51A. (Not given this year.) Sperry

A survey of recent archaeological investigation in the Bible lands of the Near East, with special attention to the discoveries which have thrown new light on the Old Testament and the history, customs, art, and religion of the Hebrews.

118. New Testament and Early Christian Archaeology. (2) S. Prerequisite: Archaeology 51 or Religion 51A. (Not given this year.) Nibley

A survey of recent archaeological investigation in the classical lands of the Mediterranean, with special attention to the discoveries which have thrown additional light on the New Testament and the history, customs, art, and religion of the early Christians.

166. Readings in Biblical Archaeology. (1 to 3) Any quarter. Staff

183. American Archaeology and the Book of Mormon. (2) S.P. Prerequisites: Archaeology 52 or Religion 52A and Archaeology 130; recommended: Archaeology 134, 137, and 176. Jakeman

A further study in the fundamental problem of American archaeology, namely the origin of the ancient civilizations of America (see Archaeology 52 or Religion 52A), with special attention to the evidence of the earliest discovered remains of these civilizations in Mexico, Central America, and Peru, including a comparison with the major archaeological claims of the Book of Mormon.

192. Seminar in the Archaeology of the Scriptures. (1) S.P. Jakeman

CHURCH HISTORY

Associate Professor Nibley, Chairman

Lower Division Courses

31, 32, 33. Latter-day Saint History and Doctrine. (2-2-2).A.W.S. Staff

A course in the history of the Church with a progressive study of the development of its institutions, beliefs, doctrines, and religious practices in relation to their social and historical setting.

Upper Division Courses

101, 102, 103. History of the Church of Jesus Christ of Latter-day Saints. (2-2-2) A.W.S. Recommended for students who have not had 31, 32, 33. Romney

Analysis and interpretation of the major historical events, and movements of the Church.

107. Biographies of Great Latter-day Saint Leaders. (2) A.S. Staff

A study of the biographies of Joseph Smith, Brigham Young, and other great leaders of the Latter-day Saints. Sketches of their lives, backgrounds, distinctive characteristics, and important contributions to the Church.

114, 115, 116. Critique of Christian Church History. (2-2-2) A.W.S. Nibley

A survey of the rise of the Christian church from its inception to the 19th century and a study of the Latter-day Saint Church in relationship to its ecclesiastical predecessors.

123, 124. World Religions. (2-2) A.W. Nibley

A survey of the major religions of the world in their historical development. Christianity will be emphasized.

LDS CHURCH ORGANIZATION AND ADMINISTRATION

Associate Professor Brown, Chairman

The aim of this department is to provide instruction of an eminently practical nature for prospective leaders in the various ward and stake organizations of the Church.

Lower Division Courses

13. The Social Relations of College Students. (2) A.W.S. Staff

41, 42, 43. Religion and Family Life. (2-2-2) A.W.S. Ballif, Bradford

This course analyzes some of the fundamental principles of the Church of Jesus Christ of Latter-day Saints and attempts to indicate how they may properly be applied toward the achievement of a happy married life. (Not given this year.)

Upper Division Courses

Priesthood

101. Priesthood and Church Government. (2) A.W.S. H. Nicholes

This course deals with the powers, authorities, and the functions of the priesthood and its role in Church government.

102. Aaronic Priesthood Quorum Leadership. (2) W. W. Smith
A consideration of problems and techniques of Aaronic priesthood group supervision.

103. Melchizedek Priesthood Quorum Leadership. (2) S. W. Smith
A consideration of problems and techniques of Melchizedek priesthood group supervision.

Church Welfare

111. The Church Welfare Program. (2) A.W.S. Staff
A study of the development and scope and the economic and spiritual aspects of the LDS Welfare Program.

Genealogy

117. The Principles of Genealogy and Temple Work. (2) A.W.S. Sudweeks
Principal topics: genealogy in the plan of salvation, mission of Elijah, research, pedigree, family and temple records, Genealogical Society of Utah, church ordinances, marriage, and temple work. Class trip to office of Genealogical Society.

118. Methods of Genealogical Research. (2) W.S. Prerequisite: 117 or consent of instructor. Sudweeks
Guidance on individual research problems, acquaintance with the library of the Genealogical Society of Utah and the genealogical section of BYU library.

Missionary Methods

Courses 121 to 139 are provided primarily for the students who look forward to missionary service in the stakes and missions of the Church. Students registering for one or more starred courses (*) are required to spend one evening or part-day each week in actual missionary work in Provo and neighboring communities under the supervision of the Stake Missionary Presidents. It is to be noted that these starred classes form a possible eighteen hour program for persons who desire, for a single quarter, to study problems related to the presentation of the gospel. Lower division students may be admitted by consent of the instructor. (Returned missionaries may assist in the practical phase of this program for a limited amount of religion credit. Time and credit to be arranged.)

***121. Survey of the Four Standard Works.** (5) A.W.S. Staff
An overview of the origin, structure, literary features,

and special problems of the Bible, Book of Mormon, Doctrine and Covenants, and Pearl of Great Price.

*122. **Latter-day Saint Doctrine.** (5) A.W.S. Staff

An examination of doctrinal passages and tracts and pamphlets used in the field with attention given to the historical backgrounds of current religions and the major problems posed by certain doctrinal concepts.

*123. **Priesthood and Mission Auxiliaries.** (3) A.W.S. Staff

A study of the functions of priesthood and Church auxiliary organizations in the mission field. Units of study will include Sunday School, Primary, MIA, Relief Society, Church Welfare, and Genealogy.

*124. **Missionary Activities and Procedures.** (5) A.W.S. Staff

A consideration of study methods, lesson preparation, public speaking, personal contact work, counselling, use of publicity channels and visual aids, personal hygiene, mission regulations, record keeping and follow-up work. Stress is placed upon the necessity of humility and reliance upon the Lord as prerequisites to success in the ministry.

125, 126, 127. **The Gospel in French.** (2-2-2) AW.S. Prerequisite: One year of French or equivalent. J. R. Clark III

A consideration of the gospel message and problems incident to its presentation in French speaking countries.

131 13,2, 133 .**The Gospel in German** (2-2-2) A.W.S. Prerequisite: One year of German or equivalent. Bartholomew

A consideration of the gospel message and problems incident to its presentation in German speaking countries.

137, 138, 139. **The Gospel in Spanish.** (2-2-2) AW.S.. Prerequisite: One year of Spanish or equivalent. Valentine

A consideration of the gospel message and problems incident to its presentation in Spanish speaking countries.

146, 147, 148. **Missionary Leadership.** (2-2-2) A.W.S. Staff

151, 152, 153. **Sunday School Leadership.** (2-2-2) A.W.S. W. Lee

A consideration of the program and aims of the Latter-day Saint Sunday School and principles of counselling, guidance, and effective gospel teaching.

NOTE: It is the intention of the Division of Religion to add other religion courses in foreign languages for prospective missionaries as the call for such classes justifies their being offered.

157. **Sacred Music.** (2) A.W.S. F. Madsen

The place and influence of music in worship and a study of the history and appreciation of the Latter-day Saint hymns. Students are given instruction and practice in conducting.

161. **Sacred Music Before 1650.** (2) A. Keeler

162. **Sacred Music: 1650-1750.** (2) W. Keeler

163. **Sacred Music: 1750 to present time.** (2) S. Keeler

Note: Education courses recommended to prospective Sunday School teachers, though not carrying religion credit are as follows. Elementary Education 160 (Child Growth and Development), Elementary Education 183 (Curriculum and Methods), Sec. Education 181 (Curriculum and Methods), Secondary Education 194 (Growth and Development of Adolescents), Philosophy of Education 187 (Character Education), and Educational Psychology 163. See COLLEGE OF EDUCATION.

Mutual Improvement Association

167. **Scout Leadership.** (2) A.W.S. Staff

A study of the fundamentals of the Boy Scout movement and basic training of leaders for scouting in the LDS Church.

171. **Beehive Leadership.** (2) A.W.S. Hailes

A study of the Beehive program, its symbolism, songs, camping activities, and methods of teaching. A training course for prospective leaders of the Latter-day Saint adolescent girl.

172. **Explorer Leadership.** (2) A.W.S. Staff

173. **Junior Leadership.** (2) A.W.S. Hailes

A consideration of the aims and program of the Junior Department of the Y. W. M. I. A.

174. **Gleaner Leadership.** (2) A.W.S. Hailes

A consideration of the aims and program of the Gleaner Department of the Y. W. M. I. A. for prospective Gleaner officers, ward leaders, and stake supervisors.

177. **M Men Leadership.** (2) A.W.S. Staff

181. **M. I. A. Speech.** (2) W. Pardoe

184. M. I. A. Drama. (2) S. Pardoe
A study and practice of the forms and functions of drama used in the Mutual Improvement Program.

187. Planning for Social Recreation. (2) A.W.S. Holbrook
The planning of social activities for the home and church.

188. Social Recreation Leadership. (2) A.W.S. Hart
The conduct of social recreation in the home and church, with emphasis on the needs of the M. I. A.

Relief Society

191. Relief Society Leadership. (2) A.W.S. Staff

GRADUATE WORK IN RELIGION

The degree of Master of Arts (M.A.) is conferred, when recommended, by the Graduate School of the University. All candidates for this degree in the field of religion are required to choose a major professor who is a membe of the graduate staff in religion and otherwise fulfill the requirements prescribed by the Gaduate Council of the University. Students concerned should consult the Dean of the Graduate School.

All applicants for advanced degrees are expected to complete a course in research and thesis writing. Students specializing in the Bible have the opportunity of continuing their studies in the Near East. Brigham Young University is a member of the Corporation of the American Schools of Oriental Research, and its students may attend the American School at Jerusalem or the one at Bagdad without tuition charges. Students may compete for one of the four fellowships offered annually by the Schools, providing financial aid beyond tuition.

Courses of Study

Theology 201, 202, 203. The Principles, Doctrines and Philosophy of the Church of Jesus Christ of Latter-day Saints. (2-2-2) A.W.S. Staff

Theology 207. Mormonism and Contemporary Christian Religions. (2) Staff

Theology 241. A History of the Social Teachings of the Christian Church to the Reformation. (3) Staff

Theology 242. Social Teachings of Christianity since the Reformation. (3) Staff

Theology 243. Structure and Dynamics of Contemporary Society. (3) Staff

Theology 244. Resources for Social Reconstruction in Contemporary Christianity. (3) Staff

Theology 251. A History of Christian Thought to the Reformation. (3) Staff

Theology 252. Development of Christian Thought Since the Reformation. (3) Staff

Theology 253. A Constructive Approach to Current Theological Issues. (3) Staff

Theology 267, 268, 269. Graduate Seminar in Theology. (Credit to be arranged.) A.W.S. Staff

Scripture 231, 232, 233. The History and Literature of the Old Testament. (Credit to be arranged.) Sperry

Scripture 234, 235, 236. The Prophets of Israel. (Credit to be arranged.) Sperry

Scipture 251. The Life of Jesus. (Credit to be arranged.) Swensen
Scripture 252. The Life and Leters of Paul. (Credit to be arranged.) Swensen

Scripture 253. The History and Interpretation of the New Testament. (Credit to be arranged.) Swensen

Scriptures 261, 262, 263. An Analysis of the Book of Mormon. (2-2-2) A.W.S. Sperry

Scripture 267, 268, 269. The Doctrine and Covenants. (2-2-2) A.W.S. Sperry

Scripture 271. The Pearl of Great Price. (2) A.W.S. Sperry, Haggerty

Scripture 277, 278, 279. Seminar in Bible and Modern Scripture. (Credit to be arranged.) A.W.S. Staff

Church History 201, 202, 203. History of the Church of Jesus Christ of Latter-day Saints. (Credit to be arranged.) A.W.S. Staff

NOTE: All courses in Biblical Languages and courses 116, 118, 166, 183, and 192 in Archaeology, will be accepted as fulfilling requirements for advanced degrees in Religion. (See under department of Bible and Modern Scripture.)

Chuch History 214, 215, 216. Critique of Christian Church History. (Credit to be arranged.) A.W.S. Nibley

Church History 251, 252, 253. World Religions. (Credit to be arranged.) A.W.S. Nibley

Church Administration 297, 298, 299 A Seminar in Church Administration. (Credit to be arranged.) A.W.S. Staff

Library

Miss Ollorton, Miss Rich, Mrs. Knight; Assistant Professor Hammond.

11. Use of Books and Libraries. A.W.S.

The purpose of this course is to help students to become efficient in using books and libraries. The use of reference books and an understanding of the Card catalogue will receive special emphasis.

168. Juvenile Literature. (5) A.W.S. Hammond

A study of the best literature available for children.

Extension Division

Home Study Faculty*

Howard S. McDonald, President

Harold Glen Clark, Director of Extension Division

Clarence Tyndall, Director of the Bureau of Audio-Visual Instruction

Mark K. Allen, M. A., Associate Professor of Psychology

Dean A. Anderson, Ph. D., Associate Professor of Agronomy and Bacteriology

Ariel S. Ballif, Ph. D., Professor of Sociology

Irene S. Barlow, M. S., Associate Professor of Home Economics

Verla L. Birrell, B. S., Instructor in Art

Harold J. Bissell, M. S., Associate professor of Sociology

Reed H. Bradford, Professor of Sociology

Ralph A. Britsch, A. B., Assistant Professor of English

Kenneth C. Bullock, M. A., Assistant Professor of Geology

Julia Alleman Caine, B. S., Instructor in Social Science

William C. Carr, Ph. D., Instructor in History and Political Science

Elsie C. Carroll, M. A., Associate Professor of English

Monroe H. Clark, M. A., Associate Professor of Education

Lars Crandall, M. S., Instructor in Secretarial Practice

James R. Clark, M. A., Assistant in Library

Gerrit de Jong, Jr., Ph. D., Professor of Modern Languages

Raymond B. Farnsworth, Ph. D., Associate Professor of Agronomy and Animal Husbandry

Wayne B. Hales, Ph. D., Professor of Physics and Mathematics

May C. Hammond, B. S., Assistant Professor of Elementary Education

Bertrand F. Harrison, Ph. D., Professor of Botany

Anna Boss Hart, M. A., Instructor in English

Charles J. Hart, Ph. D., Professor of Physical Education

Harrison V. Hoyt, Ph. D., Professor of Accounting and Business Administration

Christen Jensen, Ph. D., Professor of History and Political Science

Mrs. Christen Jensen, M. A., Special instructor in English Literature

Edgar M. Jenson, M. A., Professor of Education

Asael C. Lambert, Ph. D., Professor of Economics

Harold W. Lee, Ph. D., Associate Professor of Modern Languages

Milton Marshall, Ph. D., Professor of Physics

Thomas L. Martin, Ph. D., Professor of Agronomy and Bacteriology

Amos N. Merrill, Ph. D.,Professor Emeritus of Secondary Education

Elmer Miller, A. B., Professor of Economics

Alonzo J. Morley, Ph. D., Professor of Speech

John W. Payne, A. B., Assistant Professor of Sociology

Dean Peterson, M. S., Assistant Professor of Secretarial Practice

Hermese Peterson, B. S., Professor of Elementay Education

M. Wilford Poulson, M. A., Professor of Psychology

Ernest F. Reimschiissel, A. B., Instructor in Landscape Architecture

Stella P. Rich, B. S., Assistant Professor of English

Grant S. Richards, M. S., Associate Professor of Animal Husbandry

R. Max Rogers, M. A., Assistant Professor of German

Antone K. Romney, Ph. D., Professor of Philosophy of Education and Guidance

Oliver R. Smith, A. B., Assistant Professor of Journalism

Lucile Spencer, B. S., Instructor in Secretarial Practice

Sidney B. Sperry, Ph. D., Professor of Religious Education

Russell Swensen, Ph. D., Professor of History

Vasco M. Tanner, Ph. D., Professor of Zoology and Entomology

Lee B. Valentine, A. B., Assistant Professor of Spanish

J. Homer Wakefield, M. S., Instructor in Music

J. F. Wakefield, B. S., Special Instructor in Agriculture

Effie Warnick, M. S., Professor of Home Economics

Karl Young, M. A., Professor of English

* This list includes only principal administrative officers and faculty members who teach courses offered in Home Study (correspondence). For Extension Classes, many more faculty members are available if sufficiently large groups ask for their services. Thus most of the courses taught in residence are available as Extension classes if demand justifies.

Home Study Service

Since the organization of Brigham Young University Extension Division in 1921, formal instruction by home study and extension classes has been given to many thousands of individuals. Other thousands have received instruction through Leadership Institutes, including the annual Leadership Week of the University, and through lectures by members of the faculty, club programs, and other services.

The Extension Division offers correspondence work, among other services, to aid in enlarging the educational horizons of the many people who cannot take standard college work in residence. It is the desire of the Extension Division to assist anyone, anywhere, to continue his or her education.

Supervised individual instruction from highly trained instructors has definite advantages to the correspondence student, but perhaps the greatest advantages come through the serious application and independent thinking the student must contribute to the completing of his course. His success in the work depends largely upon his own initiative and eagerness for knowledge, and upon his personal standards of the quality of the work he is doing.

B. Y. U. Nationally Accredited

Brigham Young University, founded and endowed in 1875 by Brigham Young, is a standard American university. It is on the approved list of the Association of American Universities, Association of American Colleges, the American Council on Education, the Northwest Association of Secondary and Higher Schools, and the National Organization of Associated Women Students. The Extension Division is a member of the National University Extension Association and of the American Association for Adult Education.

Eligibility

A student may begin correspondence work (for credit) if he has met, or can meet, the entrance requirements of Brigham Young University as designated in the general catalogue, and if he is not regularly enrolled in residence work. (Students carrying residence work must have the signed approval of their dean, if they wish to enroll for correspondence classes.) A ma-

ture student may take correspondence work provided he can do the work satisfactorily, but the credit will not apply toward a degree until entrance requirements to the University are met. High school units of credit are available in some subjects, but enrollees (of high school age) must send with their applications a letter from the principal, stating the reasons why such credits should be earned in correspondence, and giving signed approval.

Credit

Correspondence courses are not a short cut. With few exceptions each course carries credit equivalent to the corresponding course given in residence.

Not more than 45 hours, of the total 186 required for graduation, may be correspondence credit.

No graduate credit can be earned in correspondence courses.

Examinations

Examinations are required in all correspondence courses unless otherwise stipulated. Examinations may be taken in the Extension Division Office, or elsewhere under the supervision of a responsible school official (principal or superintendent). Examinations will not be given until all lessons are completed.

The instructor for the course determines the student's final grade. While the grades given on lesson papers are considered, a student must pass the final examination in order to receive a passing grade for the course.

Grading

Papers will be marked by grade or percentage. Relative values are illustrated below.

A	90 to 100 percent
B	80 to 90 percent
C	70 to 80 percent
D	60 to 70 percent
E	Failure

Time Allowed

A course may be started at any time and should be completed one year from the date of registration.

A three-month extension of time, after the regulation year has passed, will be granted upon payment of a $1 fee.

Reinstatement in a course, after your name has been removed from the active file, will require the payment of a $3 fee.

Courses will not be renewed after a period of three years.

A course cannot be completed faster than three assignments per week (the standard length of courses is five lessons per quarter hour) except by special permission from the instructor. Even with special permission, a student may complete no more than six quarter hours per month.

Students who wish to apply correspondence credit toward graduation, certification, etc., should complete the work at least two weeks before credit is needed. This is particularly necessary during the summer months when faculty members are often off the campus.

Cost

The fee for any college course is $3 per quarter hour payable at the time of enrollment. The fee for a high school course is $11.

The student must secure the required textbooks for any courses taken. The cost of textbooks may be included with the fee for the course in which case this office will have the books sent direct from Student Supply.

Reference books are available at the B. Y. U. Library and may be borrowed for a two-week period. Enclose 10 cents for each book desired and address your request to The Extension Librarian, Brigham Young University Library, Provo, Utah.

The Extension Division pays postage on lesson material sent to the student. The student pays postage on material sent to the Extension Division.

You will be supplied with sufficient printed envelopes for the return of each lesson and printed paper for the first page of each lesson you submit.

Refunds

After an enrollment is completed all fees are deposited with the treasurer and NO REFUNDS WILL BE ALLOWED.

Transfers

A transfer is possible from one course to another if no work has been done.

Restrictions

A student may not enroll for more than two courses at one time. One course at a time is suggested.

If credit is desired, the student must meet entrance requirements of Brigham Young University and course prerequisites.

A student may not take correspondence work while in residence without the consent of his dean. If his total hours amount to more than eighteen, he must submit a petition to the petitions committee for the extra credit.

General Information

Lower Division courses are numbered from 1 to 99 inclusive.

Upper Division courses are numbered from 100 to 199 inclusive.

The State Department of Public Instruction, State Capitol, Salt Lake City, Utah, should be consulted about certification.

The Registrar's Office, Brigham Young University, Provo, Utah, will give necessary information on entrance and graduation requirements and transfer of credits.

To Begin Work . . .

1. Read the regulations.
2. Send for an enrollment blank.
3. Fill out the enrollment blank and mail it to the Extension Division, Brigham Young University, Provo, Utah, with the fee.

4. Obtain texts. (Money for them may be included with your fee and your texts will be sent from Student Supply.)

5. You need do nothing until books and full instructions arrive. Then send us the written work for the first assignment as soon as you have done the required studying.

OTHER EXTENSION SERVICES

Extension Classes

Classes meeting about once a week may be organized in communities which can be reached from Provo, and a member of the regular faculty engaged to conduct the course. Such classes are usually the equal to any residence class. A course in practically any department of the institution may be secured provided there is a sufficiently large group to justify it.

In addition to the correspondence and extension classes, the Extension Division offers the following services:

1. **Programs For Womben's Clubs.** Study outlines in a number of subjects, each of which covers a full year's work are available to women's clubs upon the payment of a nominal subscription fee of $6.00. Additional copies of the outline may be had for 50c each.

2. **Lyceum and Lecture Courses.** Professional lyceum numbers in music, drama, and lectures are available at nominal charges. Where communities desire, they may secure a series of lectures by members of the faculty on a variety of subjects. A lecture course of eight to ten numbers is recommended to commercial clubs, school districts, and other civic or religious groups.

3. **Leadership Institutes.** In addition to the general Leadership Week held at the University about the last week in January of each year, members of the faculty sometimes go into communities and hold local institutes. With the cooperation of the university, and of the L. D. S. stakes concerned, Leadership Weeks are now held annually in several other regions of the West.

4. **Lecture and Entertainment Service.** Within reasonable distance from Provo, student groups may be secured for the payment of expenses. High schools, ward organizations, civic clubs, and others have availed themselves of this opportunity in the past.

5. **Audio Visual Aids Service.** The Bureau of Audio-Visual Instruction maintains a library of hundreds of educational motion pictures (sound and silent), glass slides, and filmstrips which may be borrowed by schools and other non-theatrical organizations. A catalog listing the materials available, rules under which they may be borrowed, and service fees will be sent upon request.

Home Study (Correspondence) Courses

Agronomy

21x. General Crops (4) — Farnsworth

41x. Soils. (3) — **Martin**

Animal Husbandry

2x. History of Breeds of Livestock. (5) — Richards

108x. General Poultry. (3) — Richards

Art

39x. 40x, 41x. Commercial Art. (2-2-2) — Jenson

104x, 105x. Art History and Appreciation. (2-2) — Birrell

Bacteriology

21x. General Bacteriology. (3) — Martin

160x. Bacteriology and Sanitary Science. (3) — Anderson

Botany

3x. Taxonomy. (5) — Harrison

Commerce

1x. Elementary Accounting. (5) — Crandall

2x. Continuation of 1x. — Crandall

75x. Economic and Business Statistics. (3) — Hoyt

Economics

1x. Introduction to Economics. (5) — Miller

14x. Economic and Financial History of the United States. (3) — Miller

193x. Economic History of Agriculture. (3) — Wallace

Finance and Banking

14x. Economic and Financial History of the United States. (See Economics 14.)

Education

151x.	**Social Functions in Education.** (4)	Clark
153x.	**Organization and Administration of Public Schools.** (5)	Lambert
157x.	**Safety Education.** (2)	Hart
158x.	**Health Education for Teachers.** (3)	Hart
160x.	**Child Growth and Development.** (3)	Peterson
168x-169x.	**Juvenile Literature.** (4)	Hammond
172x.	**History of Education in America.** (3)	Romney
90x.	**Youth and Its Leadership.** (5)	Lambert
180x.	**Fundamentals of Guidance.** (3)	Merrill
199x.	**Articulation of School Units.** (3)	Merrill

English

1x.	**Composition and Literature.** (3)	Britsch
2x.	**Composition and Literature.** Continuation of Course. 1.	Britsch
3x.	**Composition and Literature.** Continuation of Course 2.	Britsch
21x.	**Advanced English Grammar.** (4)	Young
24x.	**Classic Myths.** (4)	Carroll
41x, 42x, 43x.	**Masterpieces of American Literature.** (2-2-2)	Mrs. Christen Jensen
64x.	**World Literature for Children.** (5)	Mrs. Jensen
69x.	**Literature of the English Bible.** (3-6)	Mrs. Jensen
71x, 72x, 73x.	**Masterpieces of English Literature.** (2-2-2)	Carroll
146x.	**Modern American Drama.** (3)	Rich
165x, 166x, 167x.	**Types of World Literature.** (2-2-2)	Mrs. Jensen

Geology and Geography

1x.	**Physical Geology.** (5)	Bissell
55x.	**Introductory Economic Geography.** (5)	Bullock

History

10x. Ancient Civilization. (5) Jensen or Carr

20x, 21x. United States to 1865—After 1865. (5-5) Jensen or Carr

104x. Greek History. (3) Swensen

120x, 121x, 122x. History of Modern Europe. (3) Jensen or Carr

Home Economics

50x. Elementary Nutrition. (2) Barlow

80x. Family Health and Child Care. (3) Warnick

Horticulture

1x. Principles of Pomology. (3) Wallace

7x. Floriculture. (3) Wallace

Landscape Architecture

1x. Elementary Landscape Architecture. (3) Reimschiissel

Journalism

61x. Newswriting. (3) Smith

188x. Community News. (3) Smith

111x. Magazine Article Writing. (3) Smith

Modern Languages

104x, 105x, 106x. Reading from the General Field of French Literature. (3-3-3) Prerequisite: 15 hours of French. (3-3-3) Lee

121x, 122x, 123x. French Composition. (3-3-3) Lee

German

104x, 105x, 106x. Reading from the General Field of German Literature. (3-3-3) Prerequisite: 15 hours of German. Rogers

121x, 122x, 123x. German Composition. (3-3-3) Rogers

Portugese

104x, 105x, 106x. Portugese Literature. (3-3-3) de Jong

121x, 122x, 123x. Portugese Composition. (3-3-3) de Jong

Spanish

104x, 105x, 106x. Reading From the General Field of Spanish Literature. (3-3-3) Prerequisite: 15 hours of Spanish. Valentine

121x, 122x, 123x. Spanish Composition. (3-3-3) Valentine

Mathematics

11x. College Algebra. (5) Marshall

12x. Plane and Spherical Trigonometry. (5) Marshall

13x. Analytic Geometry. (5) Hales

101x. Differential Calculus. (4) Hales

Music

184x, 185x, 186x. History of Music. (3-3-3) Wakefield

Physics

16x. Descriptive Astronomy. (3) Hales

21x. Weather and Climate. (5) Hales

Political Science

10x. U. S. Constitution. (3) Jensen

Psychology

1x. Effective Study. (2) Poulson

11x. General Psychology. (5) Poulson

12x. Applied Psychology. (4) Poulson

129x. Educational Psychology. (3) Allen

Religion

105x. Message of the Twelve Prophets. (2) Sperry

114x. Life and Letters of Paul. (2) Swensen

113x. Life of Jesus. (2) Swensen
101x, 102x, 103x. Church History. (2-2-2) Clark

Secretarial Practice

11x, 12x. Shorthand. (4-4) Spencer
57x. Business Correspondence. (3) Peterson

Sociology

11x. Introduction to the Study of Sociology. (6) Ballif
128x. Race Relations. (3) Ballif
136x. Community Organization and Leadership. (3) Ballif
152x. Population. (3) Bradford
156x. Rural Sociology. (3) Payne
172x. The Family. (3) Bradford

Speech

184x. Speech Correction. (3) Morley

Zoology and Entomology

129x. Genetics and Racial Hygiene. (3) Tanner
175x. History of Biology. (2) Tanner

HIGH SCHOOL COURSES

English

d. A Study of the Types of Literature. One unit credit. Hart

Geography

a. Economic Geography. (1) Bullock

History

a. U. S. History. (1) Caine

Mathematics

a. High School Algebra. (1) Marshall
c. Second Course in Algebra. (1) Marshall

Social Science

a. Problems in Democracy. (1) Caine

Graduates 1947-1948

MASTER DEGREES

MASTER OF ARTS

Beck, Sidney Marion American Fork
A. B. Degree, Brigham Young University. 1941
Major: Chemistry
Thesis: A Study of Chromatographic Adsorption Analysis and Its Application to Inorganic Qualitative Analysis.

Chantrill, Claytor Earl Provo
A. B. Degree, Brigham Young University, 1947
Major: Educational Administration
Thesis: A Plan for the Re-Location of Public Schools in Big Horn County, Wyoming.

Clark, Bruce Budge Georgetown, Idaho
A. B. Degree, University of Utah, 1943
Major: English
Thesis: A Study of the Longer Carmel Narrative Poems of Robinson Jeffers

Gardner, Edward Lovell Delta
B. S. Degree, Brigham Young University, 1941
Major: Physics
Thesis: A Further Development of the Thermistor Thermometer and its Application to Micro-Meterological Measurements.

Gates, Crawford Palo Alto. California
A. B. Degree, San Jose College, 1944
Major: Theory of Music
Thesis: Choral Movement, Joy. A Tone Poem for Orchestra and Chorus. (Poem by Jon Beck Shank)

Harmon, Paul Lewis Provo
A. B. Degree, Brigham Young University, 1944
Major: Accounting and Business Administration
Thesis: A Study of Two Utah County Consumer Cooperatives.

Howell, E. Virgil Salt Lake City
A. B. Degree, Brigham Young University, 1946
Major: Bacteriology
Thesis: An Introductory Study of Some Nutritional Factors Influencing Penicillin Production.

Hunt, Norman John Enterprise
A. B. Degree, Brigham Young University, 1947
Major: Theory of Music
Thesis: A Study of the Cup Mouthpeice with Special Reference to Dento-Facial Irregularity.

Mecham, Derral F. Salina
B. S. Degree, Brigham Young University, 1947
Major: Geology
Thesis: The Structure of Little Rock Canyon.

Miller, Lowell Storrs Provo
A. B. Degree, Brigham Young University, 1946
Major: Zoology
Thesis: Life History Studies of the Mouse, Peromyscus Truei Nevadensis

Payne, John W. Provo
A. B. Degree, Brigham Young University, 1936
Major: Sociology
Thesis: A Comparative Study of the Health Program in the Cardston District, Alberta, Canada.

Romney, Antone Kimball Provo
A. B. Degree, Brigham Young University, 1947
Major: Sociology
Thesis: An Analysis of the Relationships between Certain Sociological Background Factors and Occupational Preference as tested by the Koder Preference. Record of New Unassigned Male-Veteran Students at Brigham Young University, 1946-47.

Smith, Wilford Emery Provo
A. B. Degree, University of Utah, 1943
Major: Educational Administration
Thesis: A Study of What Certain Patrons Said about Certain Aspects of School Consolidation in the Northwestern Part of Carbon County, Utah

Swenson, David Whitmer Logan
A. B. Degree, Brigham Young University, 1943
Major: Theory of Music
Thesis: A Study of the Motivic Development of the First Symphony by Beethoven.

Valentine, Lee Benson Provo
A. B. Degree, Brigham Young University, 1939
Major: Spanish
Thesis: The Popol Buj-A Preliminary Study and Translation.

Master of Science

Boden, Ellis Lee Burley, Idaho
A. B. Degree, Albion State, 1947
Major: Educational Administration
Thesis: A Study of the Salary Schedule Policies of the Idaho High School Districts.

Bradford, Gordon Richard Fairfield, Montana
B. S. Degree, Brigham Young University, 1946
Major: Chemistry
Thesis: An Investigation of Phosphate Absorption by the Clays Montmorillonite and Kaolinite.

Canning, Ray Russell Provo
B. S. Degree, Utah State Agricultural College, 1942
Major: Sociology
Thesis: A Study of the Relationships between the Ages of Parents and the Heterogeneity of their Ages at the Time of Marriage, and Various Subsequent Social and Biological Phenomena, Based upon 2636 Couples in Carbon, Sanpete, and Utah Counties, Utah, 1940 to 1947.

Christensen, Herbert K. Provo
B. S. Degree, Brigham Young University, 1945
Major: Sociology
Thesis: A Study of the Agencies and the Methods for the Control of Juvenile Delinquency in Provo, Utah with Recommendations Based on Standards Established by Authorities in the Field.

Eastmond, Jefferson Nicholls Lehi
B. S. Degree, Brigham Young University, 1947
Major: Educational Administration
Thesis: A Study of the Trends in Public School Finance in the United States with Particular Reference to the State of Utah.

Fischer, Wilford Arthur Sacramento, California
B. S. Degree, Brigham Young University, 1941
Major: Physical Education and Recreation
Thesis: A Study of the Teen-Age Non-Commercial Recreation Program in Sacramento, California.

Gardner, George Grant Payson
B. S. Degree, Brigham Young University, 1933
Major: Secondary Education
Thesis: A Study of Reading Progress Made in Grade Eight of Payson Junior High School Following a Period of Reading Training Within School Subjects.

Gardner, Ross DeVerge Price
B. S. Degree, Brigham Young University, 1939
Major: Chemistry
Thesis: A Study of the Fossil Resins in Huntington Canyon Coal.

Grow, Stewart L. Provo
B. S. Degree, Brigham Young University, 1935
Major: History
Thesis: A Historical Study of the Construction of the Salt Lake Tabernacle.

Gwynn, Thomas Andrew Vaughn, Montana
B. S. Degree, Brigham Young University, 1947
Major: Geology
Thesis: Geology of Provo Slate Canyon in the Southern Wasatch Mountains, Utah.

Laws, Loren Kenneth Ogden
B. S. Degree, Brigham Young University, 1947
Major: Educational Administration
Thesis: An Analysis of Credit Systems and Graduation Requirements of the Secondary Schools of Utah.

Lowe, Howard D. Orem
B. S. Degree, Brigham Young University, 1945
Major: Accounting and Business Administration
Thesis: An Analysis of Federal Income Taxation as it Applies to Partnerships.

Olsen, Marion J. Provo
B. S. Degree, Brigham Young University, 1936
Major: Elementary Education
Thesis: A Study of the Promotion Practices in the Elementary Schools of Utah.

Thomas, James Richard Ogden
B. S. Degree, Brigham Young University, 1947
Major: Agronomy
Thesis: Factors Influencing the Persistence of Helminthosporium Victoriae in the Soil.

Turner, Glen H. Springville
B. S. Degree, Brigham Young University, 1940
Major: Art
Thesis: A Study of Cere-Perdue or Lost-Wax Casting Methods.

Tuttle, Lawrence Elliott Provo
B. S. Degree, Brigham Young University, 1938
Major: Geography
Thesis: Geography of the Sanpete County Oasis.

Ursenbach, Wayne Octave Salt Lake City
B. S. Degree, Brigham Young University, 1947
Major: Chemistry
Thesis: Factors Influencing the Moist Oxidation of Iron Pyrites.

Watts, Orvil A. Provo
B. S. Degree, Brigham Young University, 1931
Major: Secondary Education
Thesis: A Study of the Contributions of Motion Picture Films to Pupils Learning Library Usage Techniques.

Whitlock, Lloyd Charles Provo
B. S. Degree, Brigham Young University, 1947
Major: Philosophy of Education and Guidance
Thesis: Survey and Evaluation of the Guidance Practices in the Provo City Schools.

Williams, John Robert Provo
B. S. Degree, Brigham Young University, 1947
Major: Philosophy of Education and Guidance
Thesis: The Relationship of College Training to Present Occupation of Selected Graduates of Brigham Young University.

Wood, Don Clifton Farmington
B. S. Degree, Brigham Young University, 1947
Major: Bacteriology
Thesis: Influence of Butyl 2, 4, 5-Trichlorophen-Oxyacetate on the Susceptibility of the Potato to Infection by Streptomyces Scabies.

COLLEGE OF APPLIED SCIENCE

Bachelor of Arts

Hunter, Winifred Ellsworth Mesa, Arizona
Latimer, Estill V. Provo, Utah
Millet, Wylene Mesa, Arizona
Wilding, Malcom Walker Sugar City, Idaho
Winegar, Leone Ontario, Oregon

Bachelor of Science

Adams, Arza Paul Pleasant Grove, Utah
Allred, R. Chase Lehi
Argyle, Lenora Spanish Fork
Banks, Wilis Merrill Rigby, Idaho
Bell, Marv R. Spanish Fork
Bishoff, Rosemary Lovell, Wyoming
Brown, Robert James Weiser, Idaho
Dewsnup, Mavis Deseret
Farnsworth, Barbara Beaver
Fischer, Norma J. Sacramento, California
Fletcher, Esther Elizabeth Salt Lake City
Griffin, Lois Ogden
Griner, Verda May Phoenix, Arizona
Hale, Verda Ogden
Hansen, Bernard Chandler Weiser, Idaho
Hansen, Gereldine Redmond
Harward, Moyle E. Provo
Hatch, Melvin Taylor Provo
Haws, Lora Lee Reid Vernal
Hilton, Dawn Delta
Johnson, Donal Dabell Ogden
Keetch, C. Wesley Provo
Lewis, Don J. Paris, Idaho
Marshall, Barbara Panguitch
Martin, Ruth Provo
Matson, Ella Mae Boise, Idaho
McFarland, Ramona Ogden
Meeks, Heber Wells Salt Lake City
Mikkelsen, Seymour Ross Fountain Green
Murray, Helen J. Portland, Oregon
Oveson, Keith Ellsworth Tooele
Palfreyman, Raphel C. Springville
Parker, Don Timothy Roy
Pincock, Lorna D. Sugar City, Idaho
Ririe, David Ririe, Idaho
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Schmutz, Don F. St. George
Skousen, Peter J. Mesa, Arizona
Sperry, Claire Elaine Provo
Strong, Jack Edison Provo
Stuart, Darrel M. Ogden
Sutton, Thelma D. Grantsville
Tanner, Marlin Arthur Winslow, Arizona
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Undhjem, Kent Mallet Idaho Falls, Idaho
Watkins, Helen Buhl, Idaho
Williams, Clara Kanarraville
Worthington, Helen Provo

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

Addy, George Milton Bingham Canyon
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Ashworth, Gayle Claire Richfield
Bean, Donna Myrle Provo
Bitter, Charles Eldon Salt Lake City
Black, Forest Ring Pamona, California
Bown, Delos Edward Provo
Briem, Arlene Faye Ogden
Briggs, Irene Muriel Calgary, Alberta, Canada
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Brooks, William Mark Spanish Fork
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Christensen, Shirlee Orem
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Clark, Marden J. Provo
Clegg, Helen Provo
Clinger, Mildred LaVerne Aberdeen, Idaho
Clyde, Aileen Hales Springville
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Dame, Lorraine Ogden
Davis, Vonnie Beth Glendale, California
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Dowdle, Harold Lowe Provo
Ennis, Harry Hughes Provo
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Groneman, Paul Stanton Provo
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Holland, Hal Curtis Idaho Falls, Idaho
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Johnson, Leonard Haws Phoenix, Arizona
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Miner, Mary Jane Long Beach, California
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Nielsen, Von Rawlings Provo
Patten, Deon Orem
Pawlowski, Reinhold Karl Provo
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Ramirez, Benita Spring Canyon
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Romney, Maurine Payson
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Willardson, Beth Bennett Provo

Wilson, Bonnie Mary Provo
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Woodfield, Floyd J. North Ogden
Zundel, Kathleen Chico, California

Bachelor of Science

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Adams, Edythe Cedar City
Alder, Bryant Alfred Provo
Allman, Verl Phillips San Diego, California
Andelin, Julia Delightra Idaho Falls, Idaho
Anderson, Don Carl Heber City
Andrew, Douglas Burton Detroit, Michigan
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Butterfield, Thomas Ellis Riverton
Call, Dean Elmo Pocatello, Idaho
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Harris, Louis Eugene Provo
Hatch, Conrad Valoi Koosharem
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Peterson, Kathryn Ephraim
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Shelley, Carl Thomas American Fork
Slater, Arthur Delmar Provo
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Squire, Phil George Madison, Wisconsin
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Bachelor of Science

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Johnson, Melvin Warren	Orem
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McIff, Lyle Hatch	Lehi
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Hill, Izora Faun Provo
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Miera, Alberto Obed Penasco, New Mexico
Paul, Janet Ogden
Rowan, Naomi Tew Springville
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Smith, Ren Thornton, Idaho
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Bachelor of Science

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Andersen, Dwayne Nelson Brigham City
Anderson, Marjorie Riverton
Anderson, Thiele Pleasant Grove
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Bailey, Bryce Reed Nephi
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Baxter, Elwood M. Orem
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Burnett, Lamar C. Morgan
Bushman, Grant Moroni Provo
Butler, Margaret Driggs, Idaho
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Clark, Sibyl Bountiful
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Durnell, Bertha V. Provo
Ellertson, G. Madge Mona
Elmer, Emma Lewis Magna
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Goold, Norris W. Monroe

Graser, Wayne V. Brigham City
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Hansen, William Ezra Lethbridge, Alberta, Canada
Harding, Madge Taber, Alberta, Canada
Harding, Mary E. Salt Lake City
Hastings, Ether Provo
Hebertson, Thorit C. Provo
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Hill, Clovis Lee Pasadena, California
Hull, Ella Preston, Idaho
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Jackson, Elda B. Provo
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Jensen, LaVerda Barton Monticello
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Johnson, Lois Webb Provo
Johnson, Mary Fillmore
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Kingston, Marilyn Ogden
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Larson, Ross Tolman Oakley, Idaho
Laws, Loren K. Ogden
Macfarlane, Menzies James Pleasant Grove
Maeno, Bernice Yukie Kapie, Kauai, Hawaii
Maloney, Alice Myrle Provo
Manning, Wallace Spackman Idaho Falls, Idaho
McIntosh, Jean Annette Provo
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Messervy, Fontell C. Hebdon Rigby, Idaho
Millet, Duard Springville
Milliner, LaVon Pyper Heber City
Miner, J. Edwin Fairview
Murdock, Maxine Baird Rigby, Idaho
Nate, Jane Cokeville, Wyoming
Newman, Catherine Midvale
Nielsen, Evan C. Salina
Nielson, Georgia Helen Quincy, Washington
Nielsen, Leland Provo
Nielsen, Roger E. Springville
Nielson, Russell W. Springville
Nielson, Vance Royal Monroe
Oliphant, Doris Raphiel Campi, Louisiana
Oliverson, Glen Harold Preston, Idaho
Olsen, Garn J. Monroe

Olson, Rex A. Layton
Ottosen, Melba Sandy
Pace, Clarence E. Provo
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Petersen, Melvin Joseph Joseph City, Arizona
Pfaff, Dona Hales Salt Lake City
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Rappleye, Foster D. Twin Falls, Idaho
Rasmussen, Alvin Louis Chicago, Illinois
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Richards, Lawrence Mark Murray
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Ritchie, Donna Long Beach, California
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Sawyers, Mary Olive Tooele
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Sunderland, Ileen Lehi
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Taylor, Mary Lou Dixon Provo
Teeples, Carma Sandy
Thornley, Golda K. Layton
Thygerson, Hyrum L. Helper
Tregaskis, Lyle Richard American Fork
Tucker, Connie A. Provo
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Walker, Florence J. Lehi
Ware, Jack Austin St. George
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Whiting, Stewart Cook Mapleton
Whitlock, Rae Lou Mayfield
Williams, James Kenneth Provo
Wilson, Arthur W. Helper

Wilson, Grace Simpson.....Ogden
Winn, Vilnah Knight.....Nephi
Winterrose, Hazel Geneva.....Heber City
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Bachelor of Arts

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Bateman, Arlene Shepherd.....Mesa, Arizona
Beck, Jenna Vee.....American Fork
Brady, Stanley Jay.....Fairview
Brandley, Marian.....Lethbridge, Alberta, Canada
Broadbent, Basil D.....Santaquin
Bushman, Sariah Ann.....Snowflake, Arizona
Caldwell, Enid.....Vernal
Call, Audra Lucile.....Rigby, Idaho
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Francis, Delores.....Taber, Alberta, Canada
Gammell, LaDona.....Ogden
Greaves, Anne.....Salt Lake City
Gustaveson, Lloyd Meadows.....Coalville
Holyoak, VerJean.....Burley, Idaho
Hoopes, Kenneth A.....Provo
Hunter, Frances Jeanne.....Richfield
Jensen, Agnes.....American Fork
Ludlow, Priscilla.....Spanish Fork
Lund, Mary Edna.....Pocatello, Idaho
Magliocco, Frank Ralph.....Helper
Marchant, Norman Tippetts.....Cowley, Wyoming
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Mendenhall, Legia Eliza.....Phoenix, Arizona
Miller, Earl Andrew.....Manti
Morgan, Evelyn M.....Murray
Olsen, Nial June.....Provo
Parker, Orin D.....St. Anthony, Idaho
Pendleton, Carl J.....Evanston, Wyoming
Roberts, Norma.....Wools Cross
Sanders, Christian F.....Fairview
Sandgren, Ruth Tillotson.....Cedar City
Sharp, Stephen D. J.....Rigby, Idaho

Simmons, Lucile.....Manti
Smith, Corinne.....Lebanon, Pennsylvania
Smith, Ruel C.....Overton, Nevada
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Stokes, Orpha.....Twin Falls, Idaho
Stubbs, Nila.....Provo
Swapp, Wylie Wilson.....Overton, Nevada
Thomson, Esther Elayne.....Ephraim
Tippetts, Joseph Eli.....Springville
Wardle, Vernal Dennis.....Pocatello, Idaho
Welsch, Barbara Pauline.....San Francisco, California
Whitney, Keith Lynn.....Springville
Wilkins, Junella Sanford.....Boise, Idaho
Wilkins, Kirk Chase.....Roosevelt
Wilson, Miriam Joyce.....Centerville
Wittwer, LeNore Bea.....Reno, Nevada
Woodard, Louie Rae Peck.....Salt Lake City
Wright, Robert Ralph.....Murray

Bachelor of Science

Adair, Pearl.....Tropic
Andrus, Margaret Dawn.....St. George
Ballif, Ariel Smith, Jr.....Provo
Barker, Dwain Carlos.....Moab
Barnett, Shirley.....Ogden
Carroll, Leland Roy.....Vernal
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Groesbeck, Lue S.....Holden
Morrow, Keith Gale.....Orem
Moulton, Wilbur Earl.....San Francisco, California
Muir, Irene.....Idaho Falls, Idaho
Porter, Elbert Heaton.....Orderville
Ray, NaDene.....South Weber
Sanderson, Ivan L.....Draper
Whatcott, Thomas A.....Fillmore
Whitney, Katheryn Mayer.....Salt Lake City
Williams, Edgar M.....Price
Williams, Nevin Ray.....Provo

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Charles Eldon Bitter
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Irene Muriel Briggs
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Nan Rae Brossard
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Norma Adelle Cheatham
Marden J. Clark
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O. K. Earl
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Stanford Gwilliam
Earl Ballard Hoyt
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Kenneth Russell Madsen
Carma Mendenhall
Clinton L. Oaks
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Martha Fitzgerald Taylor
Leo Preston Vernon
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Rae Lou Whitlock
Beth Bennett Willardson
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